



EMERGENCY BATTERY REPLACEMENT

Affix this label in aircraft logbook

Recommended battery replacement 3 years from date of manufacture. Order replacement battery from Mid-Continent Instruments and Avionics at (800) 821-1212.

Date of Manufacture: 10/16



ARTEX AIRCRAFT SUPPLIES, INC.
14405 Kell Rd. NE Aurora, OR 97002
(503) 678-7929 800-547-8901

LOG BOOK ENTRY

05729 2015

E.L.T. BATTERY

REPLACEMENT DATE

DEC. 2021

#2



The Standard

AIRCRAFT LOG

ASA-SA-2

The Standard Aircraft Log
SA-2

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ASA-SA-2

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Renton, WA 98059-3153

Printed in Canada



LOG Book # 2

Aircraft Record General Information

Manufacturer CESSNA Model C-177RG
Serial 177RG1334 Registration Number N 53061
Date of Manufacture 1978

Engine(s) currently installed:

Manufacturer Lycoming Model IO-360-A1B6D Serial L-18740-51A
Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer McCulloch Model B2D034C207
HUB Model _____ Serial 822097 Serial _____
Blade Model E78TCA-0 Serial CF494 Serial CF513 Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____

Registered Owner Record

Name _____	Address _____
City _____ State _____	From _____ To _____
Name _____	Address _____
City _____ State _____	From _____ To _____
Name _____	Address _____
City _____ State _____	From _____ To _____
Name _____	Address _____
City _____ State _____	From _____ To _____
Name _____	Address _____
City _____ State _____	From _____ To _____
Name _____	Address _____
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Name _____	Address _____
City _____ State _____	From _____ To _____
Name _____	Address _____
City _____ State _____	From _____ To _____
Name _____	Address _____
City _____ State _____	From _____ To _____

Notes

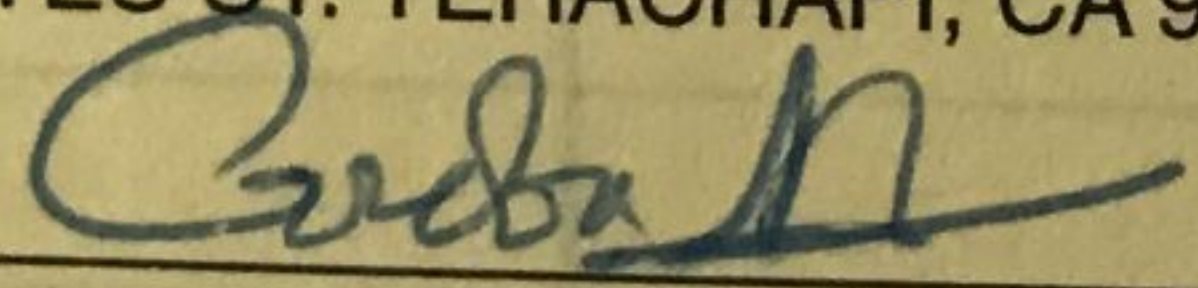
Current Weight and Balance Information

DATE	TOTAL TIME IN SERVICE	Current Weight and Balance Information			
		Empty Weight	Empty C.G.	Useful Load	Remarks
19 <u>2000</u>					
		TRANSFERRED From Log Book #1, LAST ENTRY DATED			
		04-17-00 TACH: 120.2 (CAU-AIR W/O# \$3945.			
-	-	-	-	END	-

DATE: MAY 26 2000 TACH 2416.5 N 13230
 ALTIMETER MAKE UNITED PN UNK SN 39847
 TRANSPONDER MAKE King MOD KT76C SN 3841

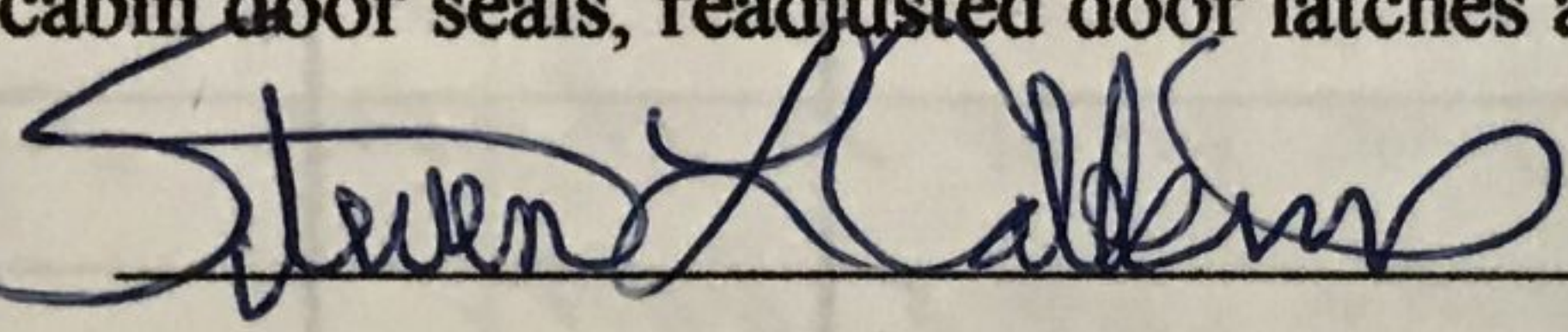
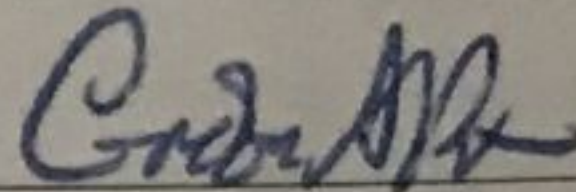
ACCOMPLISHED 24 MONTH CERTIFICATION OF THE INSTRUMENT STATIC SYSTEM, ALTIMETER AND ENCODER AS PER FAR 91.411 IAW FAR 43.APPENDIX E AND TRANSPONDER AS PER FAR 94.413 IAW FAR 43.APPENDIX F. SYSTEM TESTED TO 25,000 FT.

PERTINANT DETAILS OF THIS INSPECTION ARE ON FILE UNDER
 W.O. # 1473, MOUNTAIN HAWK AVIATION,
 222 N. HAYES ST. TEHACHAPI, CA 93561 (805) 822-8153

SIGNED  FAA REPAIR STA #MH7R6023

MH22A

DATE 19 2000	TOTAL TIME IN SERVICE	Current Weight and Balance Information			
		Empty Weight	Empty C.G.	Useful Load	Remarks
DATE: 08-08-00		TACH: 139.1		TOTAL TIME: 1558.6	
<p>ANNUAL INSPECTION COMPLETED WITH THIS DATE. FOR SIGHT OF INSPECTION AND WORK PERFORMED REF: W/O # 061/511-0 A.D.'S CHECKED THRU 00-14. C/W: A.D. 93-02-05 (TIE ROD LINES) A.D. 87-20-03 (STAYS & RAILS) A.D. 96-09-06 (FILTER GASKET) A.D. 72-03-03 (WING FLAP JACK SCREW LUBE) I CERTIFY THIS AIRCRAFT INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND APPROVE ITS RETURN TO SERVICE THIS DATE.</p> <p>Signature: [Signature] ACP 55202458 IA</p> <p>--- END ---</p> <p>14 Aug 01 TAC-177 TTS# 1598 This Aircraft inspected in accordance with FAR Part 43 App D. Annual inspection and was found to be in Airworthy Condition at this time and is approved for return to service. Inspected Aircraft with Corrections X. C/W AD 93-02-05 by pass check. AD 87-20-03 by insp. 96-09-06 by insp. AD 72-03-03 by inspection</p> <p>Signature: [Signature] ACP 559135664 IA</p>					

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p align="center">Steven Calkins Aircraft Services 3117 Victoria Way Bakersfield, CA 93309 N53061 Cessna 177RG S/N 177RG-1334 Engine IO360A1B6D, S/N L-18740-51A Prop McCauley B2D034-C207, S/N 822097</p> <p>03/22/2001 Tach 165.5 ACTT 1585.0 Eng TT 1585.0 SPOH 349.0 Replaced both cabin door seals, readjusted door latches as required, repaired L/H cowl flap cable.</p> <p>(W/O #0463)  Steven L. Calkins A&P511707653</p>
05-25-01	0172.2			Installed S-Tec System 30 ALT Altitude Hold ¹⁸ /P System 1820 S.P.C. SIA 09336 AC-D- See 357 dated 05-26-01  A2P 523725857/A _____



MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only
Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Cessna	Model 177RG
	Serial No. 177RG1334	Nationality and Registration Mark N53061
2. Owner	Name (As shown on registration certificate) Paulm Corp	Address (As shown on registration certificate) 3511Silverside Rd. STE 105 Wilmington DE 19810-4902

3. For FAA Use Only

Unit	4. Unit Identification			5. Type	
	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	(As described in Item 1 above) _____				
POWERPLANT					
PROPELLER					X
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address Daniel Uhlik 1212 Airport Drive Delano Ca 93215	B. Kind of Agency	C. Certificate No.
	<input checked="" type="checkbox"/> U.S. Certified Mechanic	559135664
	Foreign Certified Mechanic	
	Certificated Repair Station	
Manufacturer		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date
January 16 2002

Signature of Authorized Individual

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection January 16 2002		Certificate or Designation No. 559135664	Signature of Authorized Individual		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

3. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

On January 16 2002 The following work was completed on N53061. I installed a M20 Oil Separators, LLC Model 300 oil separator in accordance with Installation instructions M-20 Oil Separators Dated 7/1/99, revised 6/14/2001. STC SA02033AT. The weight and balance is negligible.

---END---

|| Additional Sheets Are Attached

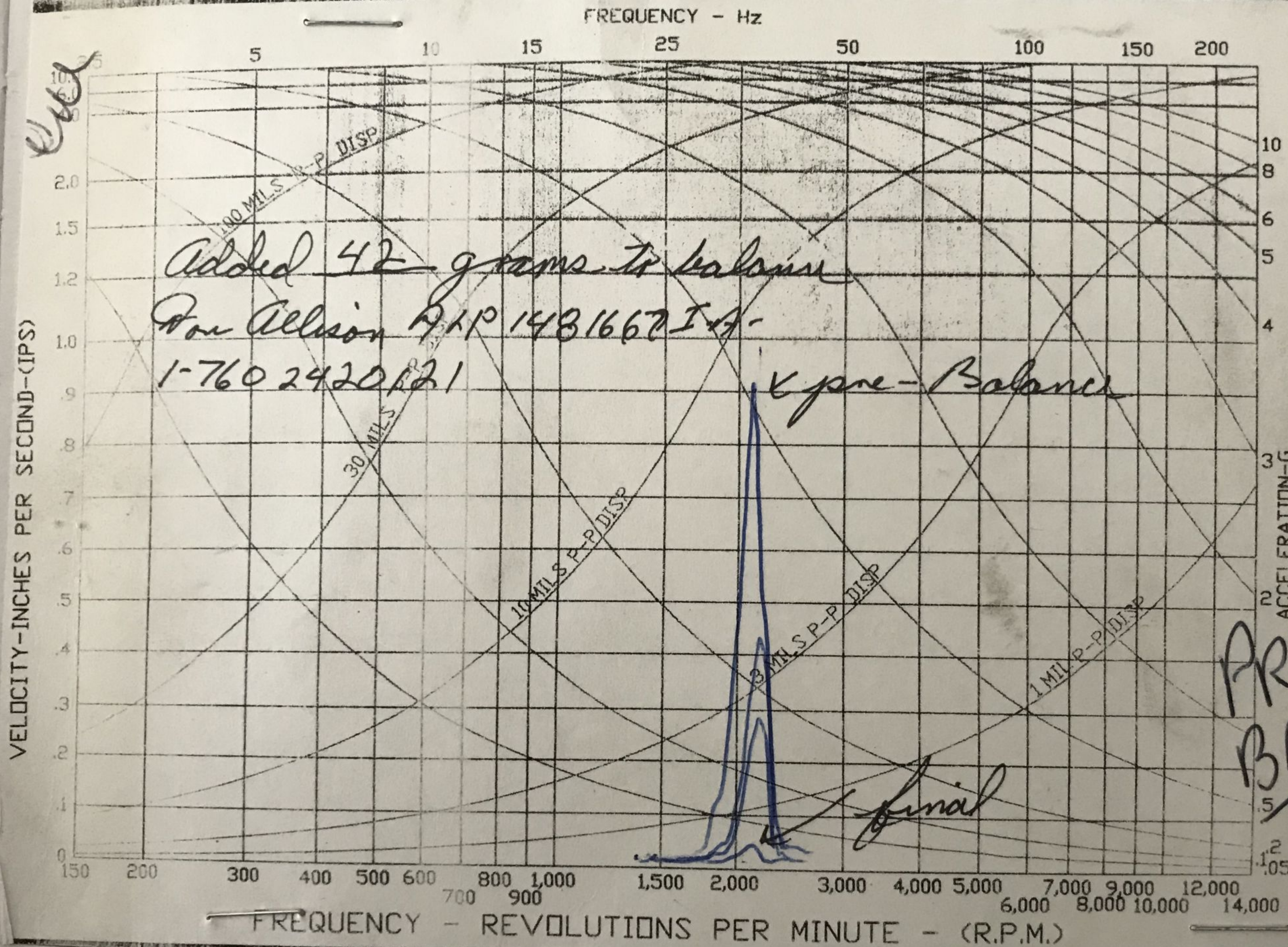
DATE 4-1-02

SUBJECT PROP

ID# 1453061

VEL (IPS) X 1000
RPM

**PROP
BALANCED**



DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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TTSN-1634.3

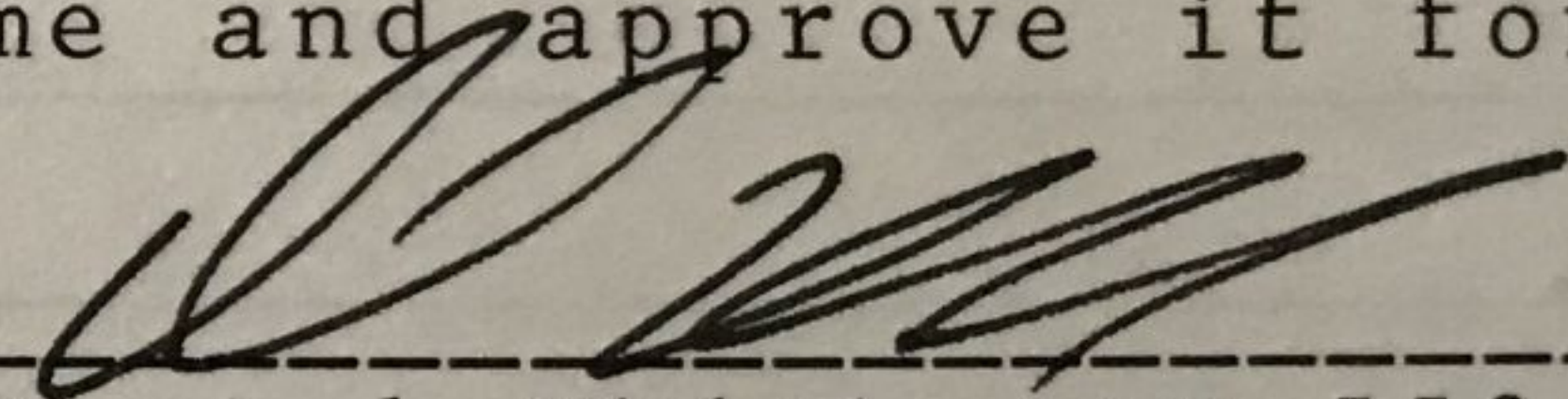
DATE Sept. 6 2002

TAC-213.3

This aircraft inspected for compliance with Type Certificate Data and the Operating Manual for this aircraft. The ELT was inspected in accordance with FAR Part 91.207D. The ELT battery is due

June/2003

I certify that I have inspected this aircraft in accordance with FAR Part 43 Appendix D annual inspection and find it to be in airworthy condition at this time and approve it for return to service.


Daniel Uhlík A&P 559135664 IA

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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8-12-03 N53061 Hobbs-30.4 Tach-238 Serial # 177RG1334

Inspected Aircraft IAW 100hr inspection, Lubricated airframe IAW maintenance manual, serviced Hydraulic power pack, serviced Battery Replaced ELT battery new due date is Sep/05. I find this aircraft airworthy and suitable for return to service at this time.-end-

Ben Diaz

Ben Diaz A&P 609206270

Aug. 12, 2003 Aircraft Total Time – 1659.3 hrs. Tach Time – 238.3 N53061

Checked all applicable AD's (previously complied with) and recurring AD 87-20-03 R2, complied with per AD instructions and no visible defect noted, AD 72-03-03 R3 & AD 76-04-03 both N/A – due to aircraft serial no. This airplane has been inspected in accordance with an Annual Inspection per FAR Part 43, Appendix D and found to be safe for return to service.

Arnulfo A. Domondon

Arnulfo A. Domondon, AP 1946639 IA

5-13-04 Tach time-249.3 N53061 Airframe

Repaired broken wire on nose gear down and lock switch, opps check ok. Removed and balanced left main wheel. Washed exterior of aircraft. I find this aircraft airworthy and suitable for return to service at this time.

Ben Diaz

Ben Diaz A&P609206270

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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5-13-04 Tack time-249.3 N53061 Engine

Removed and reinstalled prop governor after overhaul (see yellow card from Johnson prop.) performed engine run check ok. Serviced engine oil with 8 qts of aeroshell 100 sae 50 and a ch48103 oil filter. I find this engine airworthy and suitable for return to service at this time-end

Ben Diaz

Ben Diaz A&P 609206270

DATE TACH N53061 CESSNA CARDINAL II RG S/N 177RG-1334
5-14-04 0250.9

REMOVED PROPELLER GOVERNOR AND INSTALLED NEW PAD PLATE PART NO. LW12347 WITH NEW GASKETS PART NO. SL72053 AND PART NO. MS9144 - 01. INSTALLED PROPELLER GOVERNOR. ALL WORK COMPLETED IN ACCORDANCE WITH TEXTRON LYCOMING SERVICE INSTRUCTIONS NO. 1438. OPERATIONAL CHECK SATISFACTORY.

LIAM MCELWAIN

A+P 570452021

Liam McElwain

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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9-10-04 Reg# N53061 Total time-1681.3 Tach time-260.3

Lubricated Airframe IAW MM. Applied corrosion-X to wings and fuselage where needed. Repacked all wheel bearings and replaced engine air filter pn BA5705. Removed EDM 700 for repair by JP instruments. Reinstalled IAW instructions and functional test was performed, check ok. I find this aircraft airworthy and suitable for return to service at this time.

Ben Diaz
Ben Diaz A&P609206270

Sept. 10, 2004 Reg. No. N53061 Total Time – 1681.3 hrs. Tach Time – 260.3 hrs.

Checked all applicable AD up to 00-06-01 and recurring AD 87-20-03 R2 complied with per AD instruction, no defect/damage noted. This airplane has been inspected in accordance with an Annual Inspection and found to be safe for return to service.

A. Domondon
A. Domondon, AP 1946639 IA

DATE 19 _____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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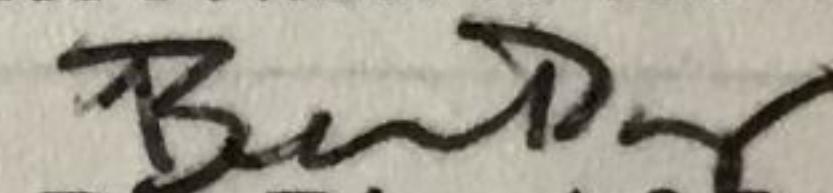
09-21-05

Aircraft Total time-1707.8

Tach time-286.8

Reg # N53061

Removed and replaced left and right main wheel bearings and races IAW MM. Replaced left and right main wheels and tubes with 15/600-6 6 ply tires and 15/600-6 tubes. Repacked nose and main wheel bearings prior to reinstallation. Removed and replaced main landing gear hydraulic hoses p.n. 111V417-4S0104 (2ea.) and nose hydraulic lines PN 124V001-4CR0134 and 124V001-4CR0150. Performed gear retraction test five times without any problems, leak check ok. Serviced hydraulic power pack IAW MM serviced left and right brake reservoirs IAW MM. Checked and adjusted cable tensions IAW MM. Removed and replace stabilator control cable p.n. S378-3L IAW MM. Removed and replaced right landing light p.n. GE 4591 and three GE 327 lights on the instrument panel. Replaced elt battery next due Nov. 2007. Removed and replace engine air filter pn BA 5705. Washed aircraft and returned to service. I find this aircraft airworthy and suitable for return to service at this time.


Ben Diaz A&P 609206270

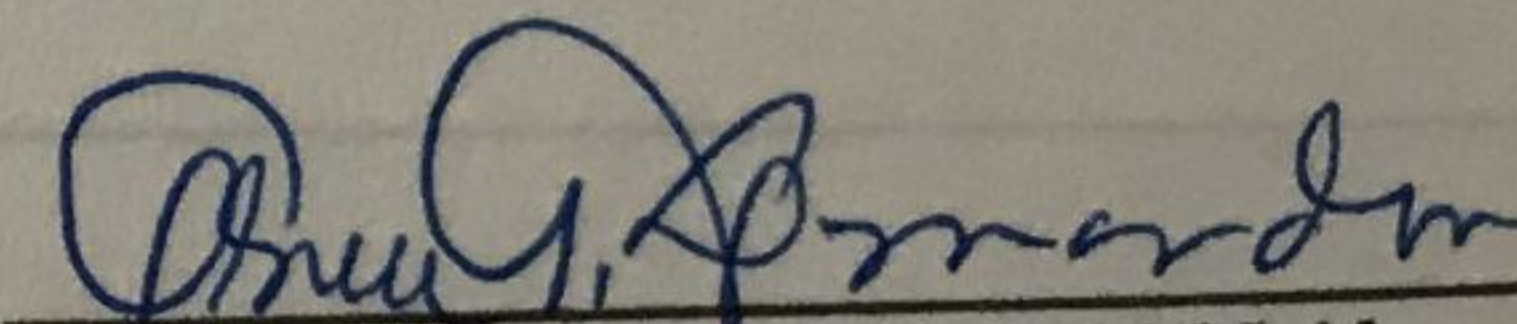
09/21/ 2005

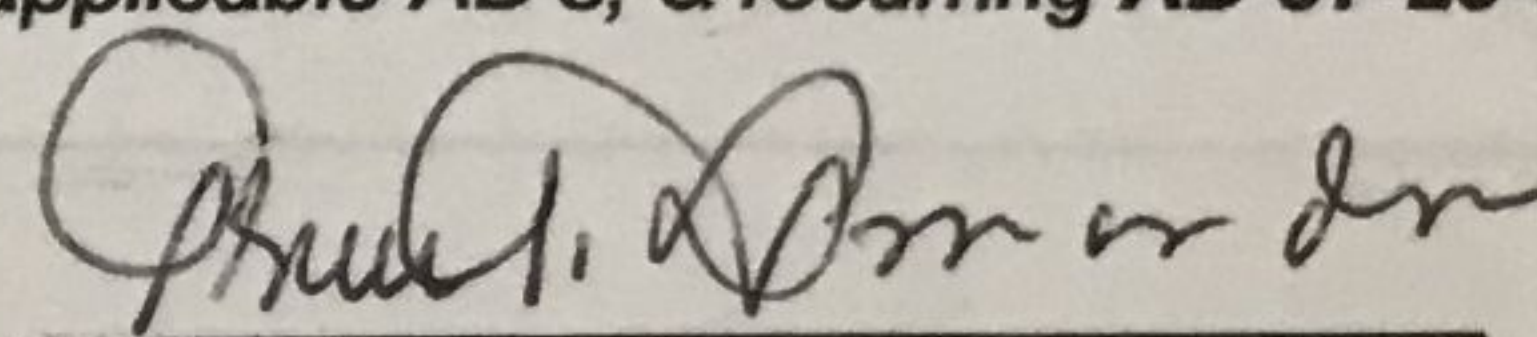
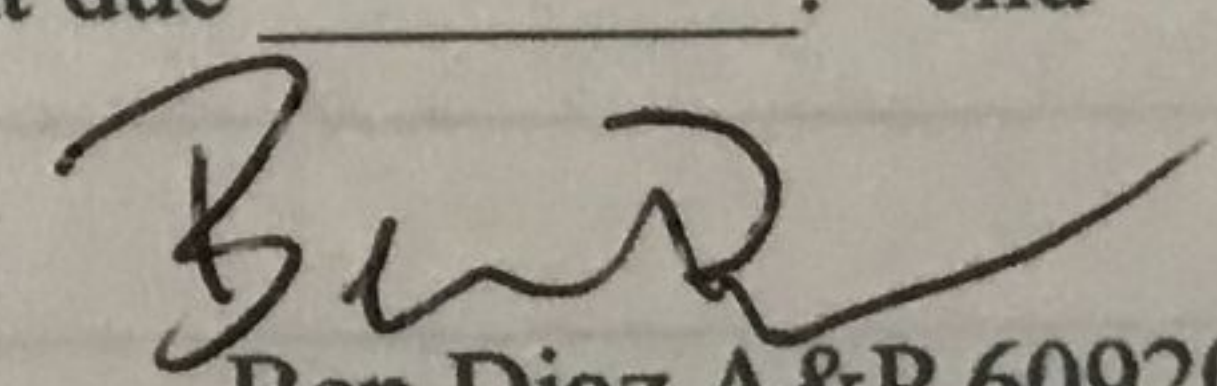
Aircraft Total Time – 1707.8 hrs.

Tach Time – 286.8 hrs

Reg. No. N53061

This airplane has been inspected in accordance with an Annual Inspection and it was determined to be safe for service this date 09/21/05. Checked all applicable AD's, and recurring AD 87-20-03 R2, inspected per AD instructions – no visible defects noted and AD 72-03-03 R3, 76-04-03, 89-19-11 all N/A – by serial number.


A. Domondon, AP 1946639 IA

DATE 19 _____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
Oct. 17, 2006			Aircraft Total Time – 1723.9 hrs.	Tach Time – 302.9 hrs Reg. No. N53061 <i>This airplane has been inspected in accordance with an Annual Inspection and it was determined to be safe for service this date 10/17/06. Checked all applicable AD's, & recurring AD 87-20-03R2 inspected per AD instructions, still within service limit.</i>  A. Domondon, AP 1946639 IA
11-20-07		Airframe entry	N53061	Hobbs 126.3 tach -313.1 Installed STC # SA01386NY, exhaust system faring shroud. Installed IAW STC instructions, form 337 filed at this time. Removed and replaced nose tire IAW MM with 500-5 air hawk tire. Removed dual warning unit part number # 1270733-1, unit was sent to precision electronics for repair this date. Unit was tested and found to be functioning after installation. Serviced battery at this time and degreased belly. Removed and replaced ELT battery with new bp 1030 next due _____. -end-  Ben Diaz A&P 609206270

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Nov. 20, 2007

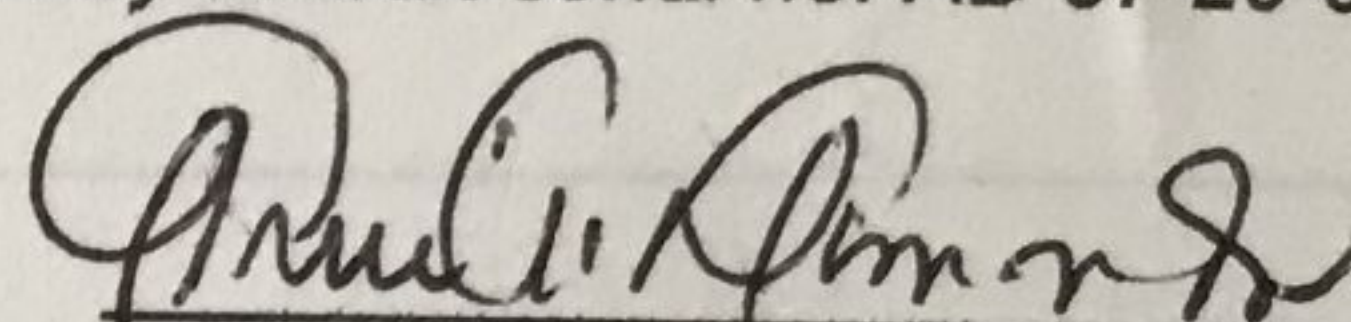
Aircraft Total Time – 1734.1 hrs.

Tach Time – 313.1 hrs.

Ser. No. 177RG1334

Reg. No. N53061

This airplane has been inspected in accordance with an Annual Inspection and it was determined to be safe for return to service the date 11/20/2007. Checked all applicable AD's, found to be previously complied with and recurring AD's 72-03-03 R3, 76-04-03, 86-19-11 all N/A by aircraft serial no. AD 87-20-03 R2 Inspected seat tracks per AD Instructions, no visible defect noted.



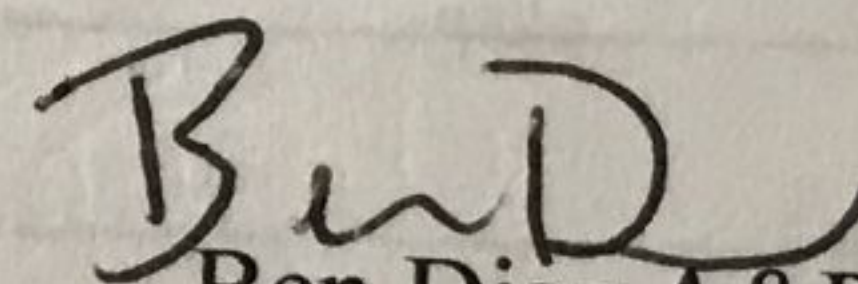
A. Domondon, AP 1946639 IA

Feb 9-2009

Aircraft Tach time- 323.5 Serial number- 177RG1334

N53061

Lubricated airframe controls and pulleys, Cleaned out debris in bell area at this time. Installed new gyro filter pn- RA-D-18-1 filter, and vacuum regulator pn- B3-5-1. Removed and replaced high voltage light on instrument panel pn- S2519-2. Cleaned corrosion off exterior wings and fuselage where needed, primed and spot painted to match at this time. Cleaned and treated corrosion where able to in wing areas, alodined and treated with corrosion-x at this time. -end-



Ben Diaz A&P 609206270

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Feb. 9, 2009

Aircraft TT – 1744.5 hrs.

Tach Time – 323.5 hrs.

Serial No. 177RG1334

Reg. No. N53061

Removed ELT Model 3000-11, Transmitter, Tray, Antenna and Remote Switch and on its existing locations installed ELT Model ME406/453-6603 (Serial No. 188-00334 and Battery due replace – Dec. 2013) Transmitter, Tray, Antenna, Remote Switch and installed Buzzer near ELT Unit. This airplane (Cessna – 177RG) has been inspected in accordance with an Annual Inspection and it was determined to be safe for service this date 02/09/09. Checked all applicable ADs, found to be previously complied with and recurring AD 87-20-03 R2, Inspected seat tracks per AD no visible defect noted this time.

A. Domondon

A. Domondon, 1946639 IA

MAKE: Cessna
MODEL: 177RG
S/N: 177RG1334
REG. NO: N53061
WORK ORDER:
03981-09-2009

Precision Aviation Services

P.O.Box 80307
Bakersfield, CA 93380
Phone: 661-393-0937

DATE: 9/14/2009
A/C TSN: 1752
TACH: 331

Airframe Entries

(1) Removed and Replaced battery with new battery P/N G242, voltage check satisfactory.... (2) Polished spinner.

Maintenance Release

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found ok for return to service. "Pertinent details of the repair are on file under Work Order No. listed above.

DATE: 9/14/2009

SIGNED: *[Signature]*

Work Order: 03981-09-2009

Printed by EBis 3 (datcomedia.com)

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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2-18-10 N53061 Serial # 177RG1334 Tach time-329.3 Airframe

Complied with Service bulletin SEB 89-1 Rev 3 by installation of new steel brackets pn's 1732063-1, 1732063-2, 1732064-1, 1732064-2. Installed using bolts pn HL18PB6-4, -5 and collars pn-HL70-6. Prior to re installation of stabilator bushing pn- 1712156-1 were removed and replaced due to wear on the left and right hand attach point on the fuselage. Stabilator was re installed using new bolts pn- NAS6606D17 at this time, rigging was checked IAW MM. Replaced shimmy damper piston rod due to wear at this time, pn-2043014-9. Shimmy damper was cleaned, inspected, and all seals were replaced at this time. Removed and replaced left and right hand cowl flight cable pn-S1391-27 and mcs1391-27. Removed and replaced spindle bolts for the nose gear bungee and the steering damper pn-2043024-1 replaced clevis pins pn-MS20392-3C17. Replaced bumper pad on the nose landing gear assembly pn-2043006-24. Removed and replaced windshield pn-W-2150-187, pilot door window pn-W2148-LH, co pilot window pn-W-2148-RH and door vent windows pn-W-1026 on the left and right hand side. Replaced center pedestal cover pn-K2013065-1. Removed and replaced left and right hand flexible brake lines due to wear, pn-S1810-600. Removed left and right hand gear leg assemblies in order to replace o rings on the upper swivel fittings. Re installed gear legs IAW MM, performed gear retraction test, check ok. Serviced brake reservoirs with mil-5606 hydraulic fluid, and bled brakes IAW MM. Installed Cardinal 177 RG landing gear motor LED kit IAW installation instructions, Form337 filed this date. - end-

Ben Diaz

Ben Diaz A&P 609206270

Feb. 18, 2010

Aircraft TT – 1750.3 hrs.

Tach – 329.3

Reg. No. N53061

Serial No. 177RG-1334

This airplane (Cessna 177RG) has been inspected in accordance with an Annual Inspection and it was determined to be safe for service this date 02/18/10. Inspected ELT in accordance with FAR 91.207 (D). Checked and found all applicable ADs were previously complied with. Recurring AD 87-20-03 R2, inspected seat tracks and pins per AD note, no visible defect noted and still within serviceable limit.

A. Domondon

A. Domondon, 1946639 IA

Instructions for Continued Airworthiness

McFarlane Aviation Inc. FAA-PMA Part Number MC2016021-4 Fuel Reservoir Plunger

FAA PMA Number: PQ3732CE FAA Project Number: PM5303WI-A

INTRODUCTION

This document is intended to provide for the continued airworthiness of McFarlane Aviation, Inc. Part Number MC2016021-4 Fuel Reservoir Plunger. It is specifically concerned with the elimination of P/N 2391-2 Washer and P/N 5103-25MF Snap Ring when P/N MC2016021-4 is installed. For all items not related to the altered MC2016021-4 installation, refer to the basic airplane model service and parts manuals.

SYSTEM DESCRIPTION

Cessna Model 177RG/F177RG aircraft incorporate a reservoir tank which serves as an in-line condensate trap.

P/N 2016021-9 is a drain valve attached to this tank. The main component of this valve is a plunger, P/N 2016021-4. McFarlane Aviation, Inc. P/N MC2016021-4 is a direct PMA replacement for Cessna P/N 2016021-4.

P/N MC2016021-4 differs from the OEM part in that a) it employs an elastomer tip with greater fuel resistance than the OEM part and b) it features an integral surface for the spring, eliminating the snap ring and washer.

SPECIAL OPERATING INFORMATION

The control and operation of the fuel reservoir tank drain valve does not change with the installation of the new plunger assembly; see Cessna Model 177RG Service Manual Section 12 for the operational control of this system.

PART REMOVAL, REPLACEMENT, AND SERVICE INFORMATION

Refer to the Cessna Model 177RG Service Manual for installation/maintenance instructions and the Cessna Model 177RG Illustrated Parts Catalog for component part numbers. The following exception applies:

Washer (P/N 2391-3) and Snap Ring (P/N 5103-25MF) are NOT used when installing McFarlane P/N MC2016021-4.

TROUBLESHOOTING

Fuel reservoir tank drain valve malfunctions that may be indicative of a defective, damaged, or overly worn P/N MC2016021-4 plunger include:

- Fuel leaking from drain when valve is in the "off" position
- Fuel leaking from valve cap
- Weak flow from drain valve

If any of the above malfunctions occur, remove and inspect the MC2016021-4 plunger. If the problem is attributed to the plunger, it must be replaced.

PLACARDS

None applicable

DATA

All information to support the continued airworthiness of this modification is as defined herein and contained in:

- Cessna Model 177RG Service Manual
- Cessna Model 177RG Illustrated Parts Catalog

INSPECTION

McFarlane Aviation, Inc. P/N MC2016021-4 is only inspected during removal and must be replaced if any signs of damage or wear are seen.

RECOMMENDED OVERHAUL PERIODS

No additional overhaul time limitations exist with the use of this part.

AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved. No additional airworthiness limitations exist.

ASSISTANCE & REVISIONS

Revisions to this ICA may not be distributed without prior FAA acceptance. Once an ICA revision is accepted by FAA, it shall be distributed to all registered owners by either U.S. mail or via internet email at the election of the PMA holder. The PMA holder shall retain a list of all registered owners. This list shall be made available to FAA for any Continued Operational Safety issues (Airworthiness Directive, etc.) that arise concerning this PMA. For questions or assistance regarding these Instructions for Continued Airworthiness (ICA), contact the Wichita Aircraft Certification Office at 316-946-4100, or by mail at 1801 Airport Road, Room 100, Wichita, KS 67209

Information from drawing 6436 Rev. A 12/14/09

McFarlane

McFarlane Aviation Products

Keep with Aircraft Maintenance Documents

McFarlane Aviation, Inc.
696 E 1700 Rd
Baldwin City, KS 66006

N53061

Installed 2 EA 1/12/2011 Hobbs 184.2 hrs

FAA-PMA Approved Eligibility for McFarlane Aviation, Inc. Fuel Reservoir Plunger for 177RG Cessna Aircraft.

Model	Serial Number	McFarlane Part Number	Replaces Cessna Part Number
177RG	177RG0001 thru 177RG1366	MC2016021-4	2016021-4
177RG	F177RG0001 thru F177RG0177	MC2016021-4	2016021-4

"MC" prefix denotes McFarlane Aviation, Inc. Manufacture

Information derived from FAA-PMA eligibility drawing 6274 Rev Org 08/03/2009. Go to www.mcfarlaneaviation.com/eligibility to view the official drawing.



McFarlane Aviation Products

McFarlane Aviation, Inc.
696 E. 1700 Rd
Baldwin City, KS 66006

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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N53061
177RG1334

St. Cloud Aviation
1544 45th Ave. SE
St. Cloud, MN 56304

Dec. 16, 2010
HM: 0178.2

Replaced wheels and brakes with Cleveland wheels and brakes
using a Cessna SK182-120D kit. Replaced right axle.
Weight and Balance change is negligible.

Ronald Redmond A&P 3374420

Date: 12/17/2010; Aircraft: N53061; Type: C-177RG; S/N: 177RG1334
Replaced rotating beacon with a Whelen 70509 unit. Weight and balance negligible.

MAINTENANCE RELEASE

The component identified was repaired and inspected in accordance
with current regulations of the Federal Aviation Administration and is
approved for return to service.

Name: Dave Backes Cert. Number: 2373093 R&I

Sign: [Signature] Date: 3411169 A/P

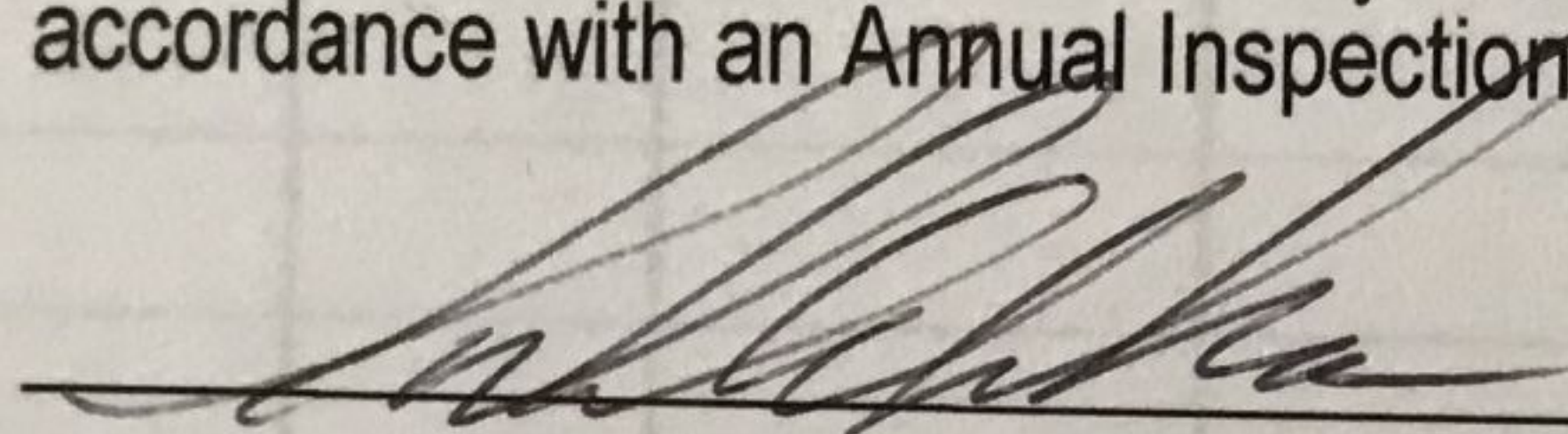
DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Date: 1/11/2011
N53061

St. Cloud Aviation
1544 45th Ave SE
St. Cloud, MN 56304

ACT: 1770.0

Replaced Left Gear Brake Swivel with p/n 1280111-1. Replaced seals in main gear Actuator. Replaced seals in Nose Gear Actuator. Replaced seals in Gear Hand Pump. Complied with AD87-20-03 Seat Rails. Tested ELT per 91.207(d), battery due date 12/2013. I certify this aircraft has been inspected in accordance with an Annual Inspection and found airworthy.



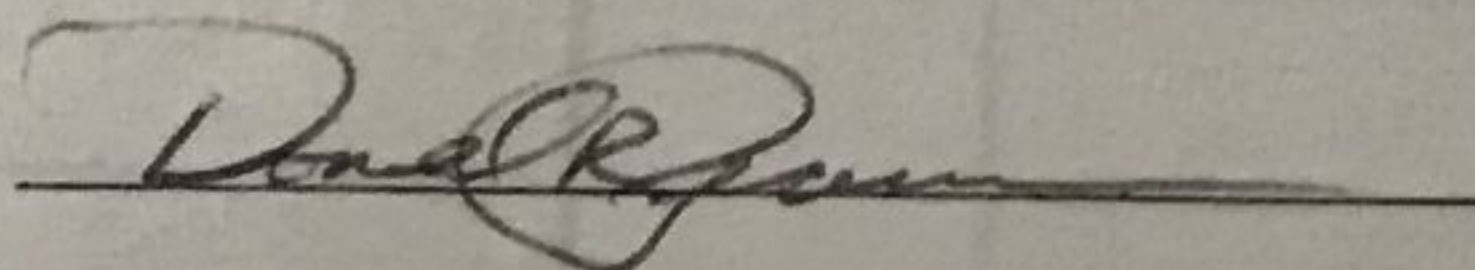
Daren M Carlson 470526948 IA

Date: 11/22/2010
N53061
s/n 177RG1334

St. Cloud Aviation
1544 45th Ave SE
St. Cloud, MN 56304

Hobbs: 178.2 hrs

Installed service kit SK210-174B, installation K, Pilot Secondary Seat Stop per Cessna SEB07-5, revision 2.



Don Pearson A&P 2655566

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs Entries must be endorsed with Name, Rating and Certificate Technician or Repair Facility. (See back pages for other)
19				

Date: 1/14/2011; Aircraft: N53061; Type: C-177RG; S/N: 177RG1334; Hobbs: 184.50; Tach: 1772.05; Total Time: 1772.05

Tach Time programmed in MVP50 for aircraft total time. Removed a KCS55A HSI system, KI209, VSI, electric horizon and installed the KDF840 in the pilot's panel per STC SA01560WI.

Performed Transponder, altimeter and encoder test.

I certify that the altimeter, static system, transponder and altitude reporter test required by FARs 91.411, 91.413 and 91.217 have been performed and found to be within the limits of FAR43 appendices E and F and AC43.6b.

Tested to 20 Kft.

Altimeter #1 Model KFD840 s/n 1001001038

Altimeter #2 Model 5934P-3 s/n 398547

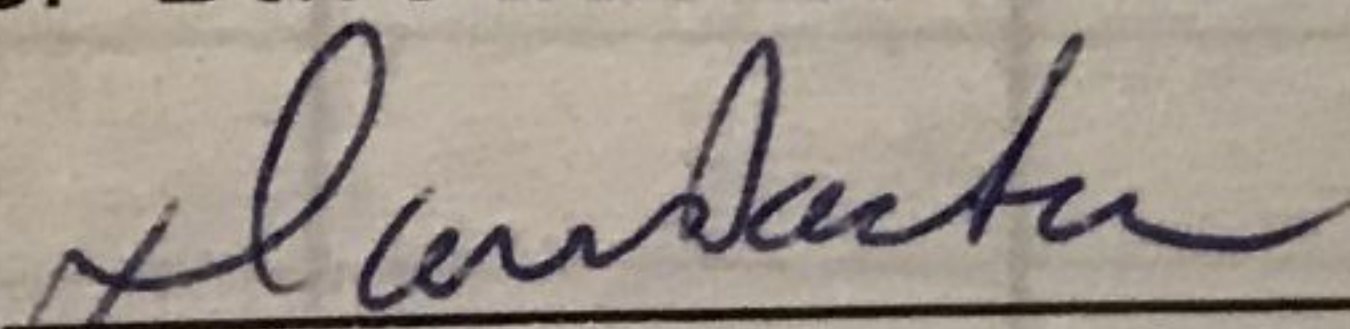
Transponder #1 Model GTX327 s/n 83738292

Encoder #1 Model SSD120-30 SRA s/n 9249

MAINTENANCE RELEASE

The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Name: Dave Backes Cert. Number: 2373093 R&I

Sign: 

Date: 01/14/2011

CRS # BDKR393C STC Aviation Inc. 1544 45th Ave SE St. Cloud MN 56304

UPS SI

UPS Ship
pping

pping Onl

Altimeter Model 5734P-3 s/n 398547

Altitude	Altimeter Reads	Altitude	Altimeter Reads
-1000	-990	14000	13950
0	00	16000	15950
500	500	18000	17930
1000	1000	20000	19920
1500	1500	22000	
2000	2000	25000	
3000	2995	30000	
4000	4000	35000	
6000	5990	40000	
8000	7990	45000	
10000	9980	50000	
12000	11970		

Inspector 95 Date 1-12-11

Altimeter Model KFD 840 s/n 1001001038

Altitude	Altimeter Reads	Altitude	Altimeter Reads
-1000	-1020	14000	13950
0	-30	16000	15950
500	480	18000	17940
1000	980	20000	19950
1500	1480	22000	
2000	1980	25000	
3000	2970	30000	
4000	3970	35000	
6000	5965	40000	
8000	7960	45000	
10000	9960	50000	
12000	11950		

Inspector 95 Date 1-12-11

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

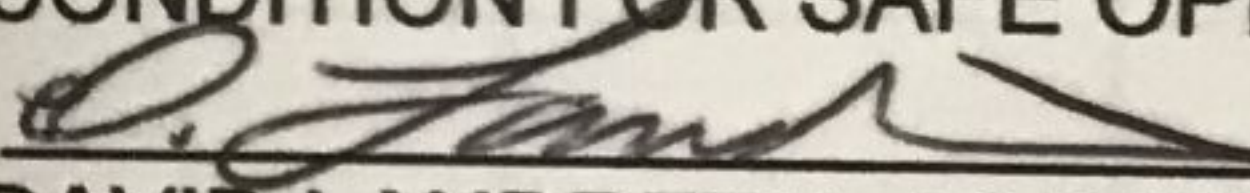
TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

7 MARCH 2011

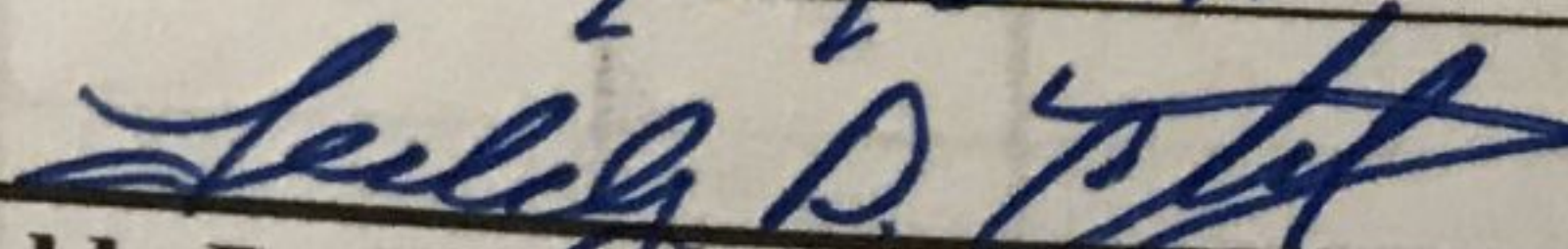
N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 192.2 ACFT TT: 1779.75
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 18.5

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED ON 7 MARCH 2011 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF THE APPENDIX D TO PART 43 OR OTHER FAA APPROVED PROGRAMS, AND FOUND TO BE IN CONDITION FOR SAFE OPERATION.


DAVID LANDRETH A&P 2651512IA



I FIND THAT THIS AIRCRAFT MEETS THE
REQUIREMENT FOR THE CERTIFICATON
REQUESTED AND HAVE ISSUED A
SPECIAL AIRWORTHINESS
CERTIFICATE DATED MAR/10/2011.
THE NEXT CONDITION INSPECTION
IS DUE SEP/10/2011.


Teddy D. Christy DARE700517SW

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19 _____				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

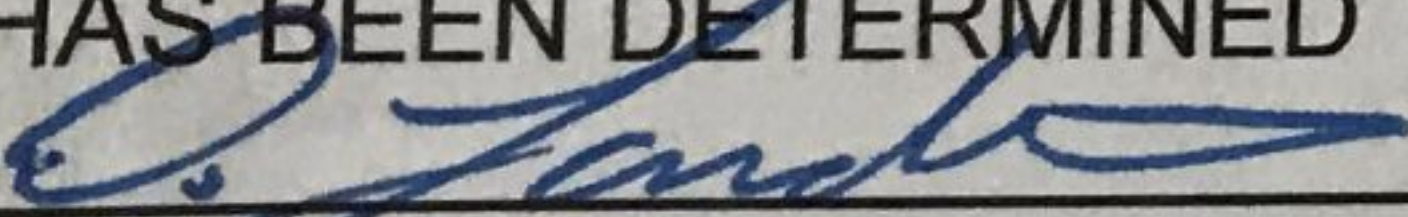
AIRFRAME LOG BOOK ENTRY

21 JUNE 2012



N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 210.5 ACFT TT: 1786.6
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 31.32

COMPLETED **ANNUAL INSPECTION** USING CESSNA MAINTENANCE MANUAL INSPECTION CHECKLIST.
 PERFORMED AIRWORTHINESS DIRECTIVE SEARCH USING **AVANTEX DISC 2012-11**
 COMPLIED WITH **AD 2008-26-10** BY INSPECTION OF HOLE IN VALVE. NO FAULT FOUND.
 COMPLIED WITH **AD 2011-10-09** BY INSPECTION AND ADJUSTMENT. NEXT INSPECTION DUE **1886.6 TT**.
 FOUND ALL OTHER AD'S PREVIOUSLY COMPLIED WITH, NOT DUE, OR NOT APPLICABLE. SEE AD COMPLIANCE
 REPORT DATED 6/21/2012 FOR DETAILS.
 PERFORMED **12 MONTH** CABIN HEAT AND AIR DUCT INSPECTION, NEXT DUE **JUNE 2013**.
 PERFORMED **12 MONTH** HAND HELD FIRE EXTINGUISHER INSPECTION, NEXT DUE **JUNE 2013**.
 PERFORMED **12 MONTH** ELT OPERATION CHECK PER FAR 91.207D. NEXT DUE **JUNE 2013**. ELT BATTERIES NOT
 DUE REPLACEMENT UNTIL **DEC 2013**. PERFORMED **100 HOUR** AND **300 HOUR** AIRCRAFT **LUBE REQUIREMENTS**.
 ALL FLIGHT CONTROL RIGGING CHECKS PERFORMED PER MAINTENANCE MANUAL.
 ALL LANDING GEAR CHECKS PERFORMED PER MAINTENANCE MANUAL.
 REMOVED AND REPLACED ALL INSTRUMENT AIR FILTERS WITH NEW.
 I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN **ANNUAL INSPECTION** AND
 HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION.


 DAVID LANDRETH A&P 2651512IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

TORNADO ALLEY TURBO, INC.



17 JULY 2012 1786.6
N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: ~~492.2~~ ACFT TT: ~~1779.75~~
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: ~~38.5~~ 31.32

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED ON 17 JULY 2012 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF THE APPENDIX D TO PART 43 OR OTHER FAA APPROVED PROGRAMS, AND FOUND TO BE IN CONDITION FOR SAFE OPERATION.

[Signature]
DAVID LANDRETH A&P 2651512IA

I FIND THAT THIS AIRCRAFT MEETS THE
REQUIREMENT FOR THE CERTIFICATION
REQUESTED AND HAVE ISSUED A

SPECIAL AIRWORTHINESS
CERTIFICATE DATED 8-23-2012.
THE NEXT CONDITION INSPECTION
IS DUE ON 8-23-2013.

Patrick Gregory ASI
Patrick Gregory, ASI, SW-MIDO-41

1. Approving National
Aviation Authority/Country:
FAA/UNITED STATES

2. **AUTHORIZED RELEASE CERTIFICATE**

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

AY13-03944

4. Organization Name and Address:
FAA CRS #CM2R747K

AUTOPILOTS CENTRAL, INC.

HANGAR 23, TULSA INT'L AIRPORT • TULSA, OKLAHOMA 74115

5. Work Order/Contract/Invoice
Number: Same #3

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch No.:	12. Status/Work:
1	GTX 327	011-00490-00		1	83738292	INSPECT

13. Remarks:

Reference attached service shop report for work performed.

14. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in condition for safe operation.

☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:

16. Approval/Authorization No.:

20. Authorized Signature:

21. Approval/Certificate No.:

CM2R747K

17. Name (Typed or Printed):

18. Date:

22. Name (Typed or Printed):

23. Date (m/d/y):

Charles A Schacht

FEB 14 2013

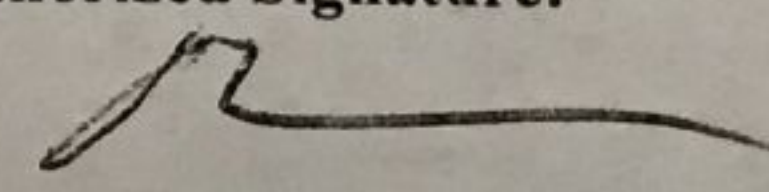
User/Installer Responsibilities

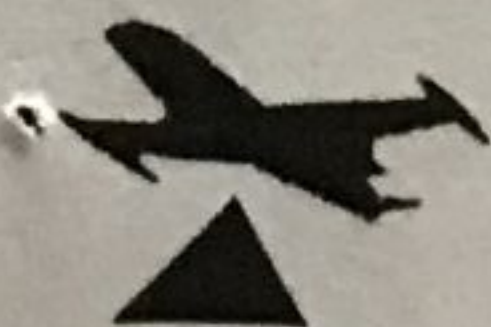
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

AV 3944

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: DR10970	
4. Organization Name and Address: MOOG Crossbow Navigation, Guidance & Sensor 1421 MCCARTHY BLVD. MILPITAS, CA 95035						5. Work Order/Contract/Invoice Number: DR10970	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	PRIMARY FLIGHT DISPLAY (PFD)	KFD 840 8350-0840-08 REV A	TSO ARTICLE N/A	1	0901001564	See Block 13	
13. Remarks: 1. ITEM WAS ALTERED TO PN 8350-0840-08 AS DOCUMENTED ON DR10970 HONEYWELL INTERNATIONAL, INC. PN:066-01206-0104 2. APPLICABLE INSPECTION TRAVELLERS ARE ON FILE. THIS FORM IS ISSUED FOR IDENTIFICATION AND INDICATION OF INSPECTION STATUS. 3. THIS FORM DOES NOT AUTHORIZE EXPORT OF LISTED ASSEMBLIES. 4. ITEM PASSED ALL ATP REQUIREMENTS AND MEETS ALL SPECIFICATIONS/DESIGN DATA OF A NEW UNIT. -----NOTHING FOLLOWS-----							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: PT2390NM	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): Peter Padar		23. Date (m/d/y): 5/21/12	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							



Autopilots Central, Inc.

Hangar 23, Tulsa International Airport - Tulsa, OK 74115

P.O. Box 582108 - Tulsa, OK 74158

(918)836-6418 - Fax (918)832-0136

FAA CRS CM2R747K

Logbook Entry

Sold To: Tornado Alley Turbo
300 Airport Road
Ada, OK 74820

Work Order: AV13-03944
Acct Number: (580)332-3510

Opened: 2/14/2013
Closed: 3/12/2013

Aircraft Number:	N53061	Type: CESSNA 177RG	S/N: 177RG1334				
Eng#	Type	S/N	Time	Cycles	Prop Type	Prop S/N	Prop Time
1							

Discrepancy: 1

Problem:

Certify transponder.

Action Taken:

GTX327 Transponder P/N 011-00490-00 S/N 83738292

Certified transponder in accordance with FAR 43-6A and complies with FAR 43, Appendix F.

Discrepancy: 2

Problem:

Certify altimeter.

Action Taken:

KFC840 Crossbow Altimeter P/N 066-01206-0104 S/N 1001001038

Unit altimeter data failed at all test points up to 10,000 feet. Removed unit for factory re-calibration.

3/12/2013 - Installed exchange KFD840 S/N 0901001564 to aircraft.

Note:

This Discrepancy is covered under warranty.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
066-01206-0104	KFD840 Flight Display		1.00	Each	\$	
	S/N: 0901001564					

Discrepancy: 3

Problem:

Certify static system.

Action Taken:

Tested static system and found leakage in excess of 700fpm. Secured loose fittings at both sump bottle and the encoder.

Replaced hose connecting static line to KFD840 static input fitting. Re-tested and certified static system in accordance with FAR 43, Appendix E. Paragraph A.

Discrepancy: 4

Problem:

Certify altitude reporting system.

Action Taken:

Certified altitude reporting system IAW FAR 43, Appendix E, Para C, Appendix E, Paragraph A

Miscellaneous Charges:

Misc Supplies: \$

Totals:

SubTotal:	\$
Less Warranty Labor:	\$
Charges:	\$

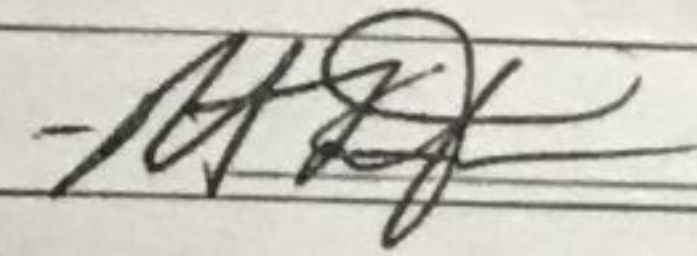
The articles and/or work hereon described is/are certified
airworthy, (unless otherwise specified).

Autopilots Central, Inc.

FAA CRS CM2R747K

Autopilots Central, Inc.
Hangar 23, Tulsa International Airport - Tulsa, OK 74115

Authorized Signature

A handwritten signature in black ink, appearing to be "M. J. [unclear]", written over a horizontal line.

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19_____				

TORNADO ALLEY TURBO INC.

300 AIRPORT RD

ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

20 MARCH 2013

N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 233.5 ACFT TT: 1791.6

LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 38.71

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED ON 20 MARCH 2013 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF THE APPENDIX D TO PART 43 OR OTHER FAA APPROVED PROGRAMS, AND FOUND TO BE IN CONDITION FOR SAFE OPERATION.

David Landreth

DAVID LANDRETH A&P 2651512IA

TORNADO ALLEY TURBO, INC.



TORNADO ALLEY TURBO INC.

300 AIRPORT RD

ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

20 MARCH 2013

N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 233.5 ACFT TT: 1791.6

LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 38.71

PURSUENT TO THE REQUIREMENT OF THE EXPERIMENTAL OPERATING LIMITATIONS PARAGRAPH 4 THIS AIRPLANE HAS BEEN FLOWN THE REQUIRED MINIMUM 5 HOURS UNDER RESEARCH AND DEVELOPMENT PRIOR TO BEING ALLOWED TO BE PLACED INTO MARKET SURVEY STATUS.

Billy Wallace

BILBY WALLACE 3121551 CFI

TORNADO ALLEY TURBO, INC.



tions
er of
tries.)

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19 _____				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

1 JULY 2013



N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 235.5 ACFT TT: 1793.6

LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 40.71

INSTALLATION OF **STC SA4081NM** TURBONORMALIZING SYSTEM IN ACCORDANCE WITH ENGINE TECHNOLOGIES INC. DRAWING LIST NO. D-177RG-100 DATED APRIL 29, 2013 TO EXISTING **IO-390-A1A6** ENGINE CURRENTLY INSTALLED IN THIS AIRFRAME. REFER TO AIRPLANE FLIGHT MANUAL SUPPLEMENT, TN177RG-390 FOR CONTINUED AIRWORTHINESS AND OPERATING LIMITATIONS.

INSTALLATION REQUIRES THE ADDITION OF **STC SE4082NM** DATED JUNE 7 2013.

INSTALLED **TURBO** PART NUMBER **466642-9005** SERIAL NUMBER **BK020011**.

INSTALLED **WASTEGATE** PART NUMBER **470842-0004** SERIAL NUMBER **MAN00307**.

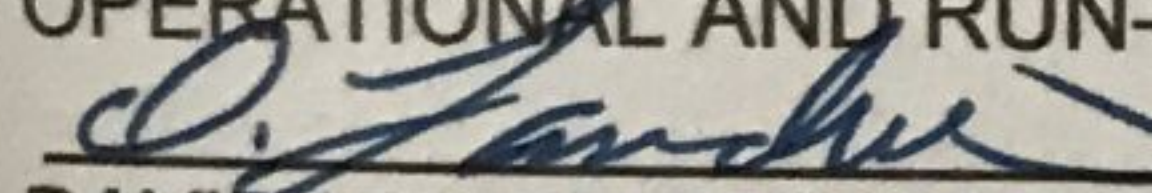
INSTALLED **PRESSURE RELIEF VALVE** PART NUMBER **470944-0029** SERIAL NUMBER **LCN00040**.

INSTALLED **MANIFOLD PRESSURE CONTROLLER** PART NUMBER **470688-0010** SERIAL NUMBER **LEN00148**.

INSTALLATION INCLUDES NEW INDUCTION AND INTERCOOLER SYSTEM APPROVED UNDER THE CURRENT DRAWING PACKAGE.

INSTALLED A TIT PROBE INTO EXISTING EI MVP-50 ENGINE MONITOR. UPADATED EI DATA CARD TO ACCEPT TURBO SYSTEM PARAMETERS. DATA APPROVED BY EI.

OPERATIONAL AND RUN-UP CHECKS OK.


DAVID LANDRETH A&P 2651512IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19 _____				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

1 JULY 2013



N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 235.5 ACFT TT: 1793.6
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 40.71

REMOVED INSTRUMENT AIR PUMP AND PLUMBING.
 INSTALLED NEW MIDCONTINENT INSTRUMENTS 4300 SERIES ELECTRIC ATTITUDE INDICATOR WITH BATTERY

BACK UP.

STAND-BY BATTERY DUE REPLACEMENT EVERY 3 YEARS. BATTERY REPLACEMENT DUE **JULY 2016**.
 OPERATIONAL AND RUN-UP CHECKS OK.

David Landreth

DAVID LANDRETH A&P 2651512IA

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

1 JULY 2013



N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 235.5 ACFT TT: 1793.6
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 40.71

INSTALLED AIRWOLF REMOTE MOUNTED ENGINE **OIL FILTER KIT AFC-K007** IN ACCORDANCE WITH AFC-K007-MI
 AND APPROVED UNDER **STC SA00024NY**.
 OPERATIONAL AND RUN-UP CHECKS OK.

David Landreth

DAVID LANDRETH A&P 2651512IA

4300 ELECTRIC ATTITUDE INDICATOR

- Battery automatically charges during normal operation
- With loss of aircraft power, including end of flight shutdown, this unit will automatically switch to battery power operation for approx. 1 minute, then will automatically shut down.
- Battery service recommended annually – replace at three (3) years
- See Pilot's Guide for complete details – part # 9015834

Standby Battery self-test function:

- ▶ Aircraft power applied to unit
- ▶ Push and hold STBY PWR button
- ▶ Amber status flashes, release button
 - ▶ Green TEST light = good battery
 - ▶ Red Test light = recharge or replace battery



Battery Install Date

4300 ELECTRIC ATTITUDE INDICATOR

This precision attitude indicator utilizes a unique self-contained emergency standby battery and lighting system.

Red warning flag = inoperative – do not use

Flashing amber status light = loss of input power

- ▶ Automatically engages standby battery for approx 1 min.

STBY PWR button functions:

- ▶ Push to continue running on battery power for up to one hour. Amber light will go out.
- ▶ Push again to power off gyro
- ▶ Push and hold to activate the self-test function

www.mcico.com

*Thank you for purchasing this
Mid-Continent Instruments and Avionics
product.*

 **MidContinent**[™]
INSTRUMENTS+AVIONICS

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

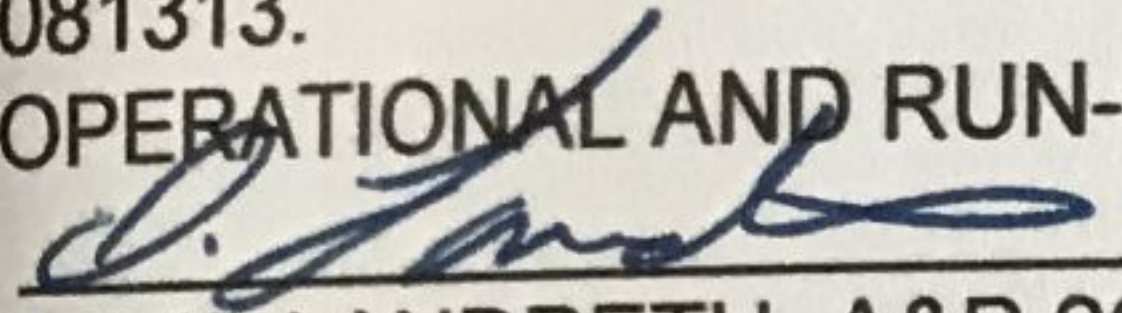
AIRFRAME LOG BOOK ENTRY

10 JULY 2013

N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 235.5 ACFT TT: 1793.6
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 40.71

REMOVED AND REPLACED STARTER WITH NEW SKY-TEC MODEL NUMBER 149-24PM SERIAL NUMBER F4P-081313.

OPERATIONAL AND RUN-UP CHECKS OK.


DAVID LANDRETH A&P 2651512IA

TORNADO ALLEY TURBO, INC.



DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

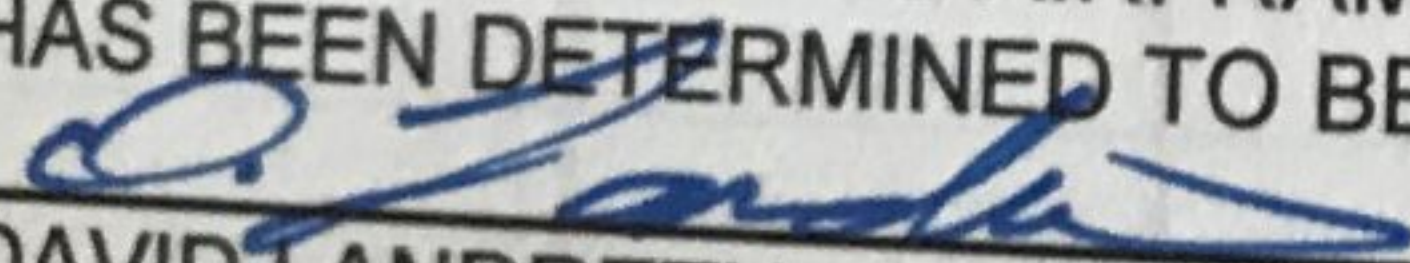
AIRFRAME LOG BOOK ENTRY

1 AUG 2013



N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 239.5 ACFT TT: 1795.6
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 43.53

COMPLETED **ANNUAL INSPECTION** USING CESSNA MAINTENANCE MANUAL INSPECTION CHECKLIST.
PERFORMED AIRWORTHINESS DIRECTIVE SEARCH USING **AVANTEX DISC 2013-15**
COMPLIED WITH **AD 2011-10-09** BY INSPECTION AND ADJUSTMENT. NEXT INSPECTION DUE **1895.6 TT**.
FOUND ALL OTHER AD'S PREVIOUSLY COMPLIED WITH, NOT DUE, OR NOT APPLICABLE. SEE AD COMPLIANCE
REPORT DATED 9/1/2013 FOR DETAILS.
PERFORMED **12 MONTH** CABIN HEAT AND AIR DUCT INSPECTION, NEXT DUE **AUG 2014**.
PERFORMED **12 MONTH** HAND HELD FIRE EXTINGUISHER INSPECTION, NEXT DUE **AUG 2014**.
PERFORMED **12 MONTH** ELT OPERATION CHECK PER FAR 91.207D. NEXT DUE **AUG 2013**. ELT BATTERIES NOT
DUE REPLACEMENT UNTIL **DEC 2013**. PERFORMED **100 HOUR** AND **300 HOUR** AIRCRAFT **LUBE REQUIREMENTS**.
ALL FLIGHT CONTROL RIGGING CHECKS PERFORMED PER MAINTENANCE MANUAL.
ALL LANDING GEAR CHECKS PERFORMED PER MAINTENANCE MANUAL.
I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN **ANNUAL INSPECTION** AND
HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION.


DAVID LANDRETH A&P 2651512IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19				

TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

23 OCT 2013

TORNADO ALLEY TURBO, INC.



N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 239.5 ACFT TT: 1795.6
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 43.53

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED ON 23 OCT 2013 IN ACCORDANCE WITH THE SCOPE AND
DETAIL OF THE APPENDIX D TO PART 43 OR OTHER FAA APPROVED PROGRAMS, AND FOUND TO BE IN
CONDITION FOR SAFE OPERATION.

David Landreth
DAVID LANDRETH A&P 2651512IA

I FIND THAT THIS AIRCRAFT MEETS THE
REQUIREMENT FOR THE CERTIFICATION
REQUESTED AND HAVE ISSUED A

SPECIAL AIRWORTHINESS
CERTIFICATE DATED OCT. 24, 2013.
THE NEXT CONDITION INSPECTION
IS DUE ON OCT 23, 2014.

Patrick Gregory
Patrick Gregory, ASI, SW-MIDO-41

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

TORNADO ALLEY TURBO INC.

300 AIRPORT RD

ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

28 OCT 2013

N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 233.5 ACFT TT: 1791.6

LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 38.71

PURSUENT TO THE REQUIREMENT OF THE EXPERIMENTAL OPERATING LIMITATIONS PARAGRAPH 4 THIS AIRPLANE IS TO BE FLOWN UNDER RESEARCH AND DEVELOPMENT UNTIL FURTHER NOTICE.

Billy Wallace
BILBY WALLACE 3121551 CFI



TORNADO ALLEY TURBO INC.

300 AIRPORT RD

ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

20 NOV 2013

N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 239.5 ACFT TT: 1797.5

LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 45.71

PERFORMED AIRWORTHINEES DIRECTIVE CHECK USING BI-WEEKLY AVANTEX 2013-21 AND FOUND ALL AD'S PREVIOUSLY COMPLIED WITH OR NOT APPLICABLE.

David Landreth
DAVID LANDRETH A&P 2651512IA



DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

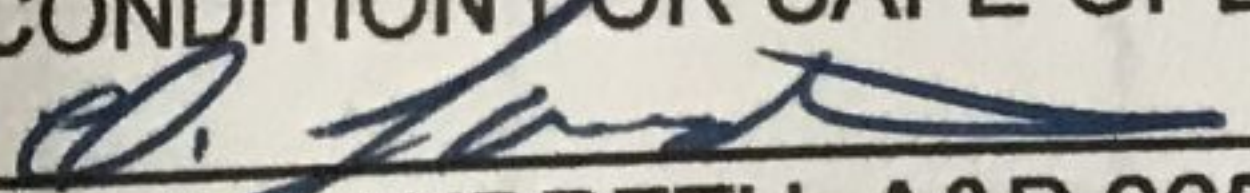
TORNADO ALLEY TURBO INC.
300 AIRPORT RD
ADA, OK 74820

AIRFRAME LOG BOOK ENTRY

20 NOV 2013

N53061 CESSNA 177RG SN: 177RG1334 ACFT HOBBS: 239.5 ACFT TT: 1797.5
LYCOMING IO-390-A1A6 SN: RL-191-80E ENG TSN: 45.71

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED ON 20 NOV 2013 IN ACCORDANCE WITH THE SCOPE AND
DETAIL OF THE APPENDIX D TO PART 43 OR OTHER FAA APPROVED PROGRAMS, AND FOUND TO BE IN
CONDITION FOR SAFE OPERATION.

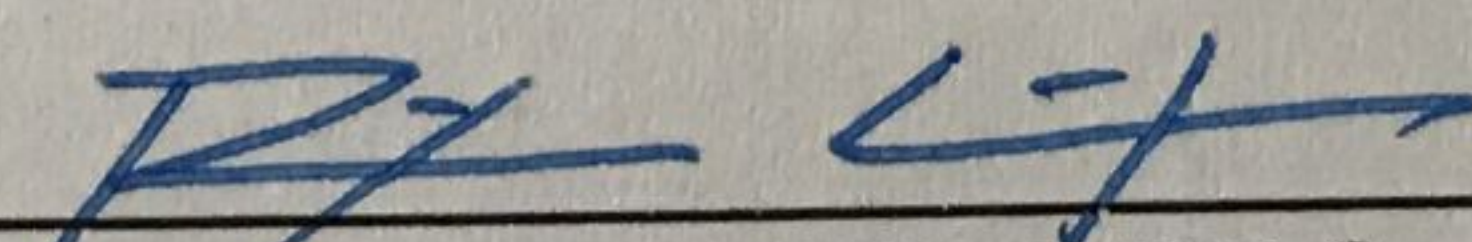

DAVID LANDRETH A&P 2651512IA

TORNADO ALLEY TURBO, INC.



I FIND THAT THIS AIRCRAFT MEETS THE
REQUIREMENT FOR THE CERTIFICATION
REQUESTED AND HAVE ISSUED A

STANDARD AIRWORTHINESS
CERTIFICATE DATED Nov 21, 2013.
THE NEXT Condition INSPECTION
IS DUE ON Nov 20, 2014.


Rex Cox, ASI, ASW-MIDO-41

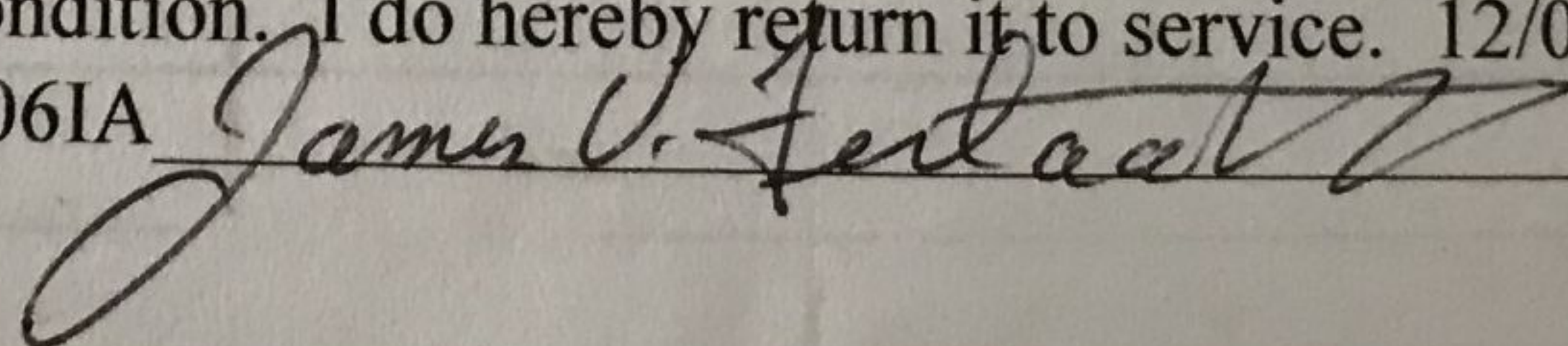
DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

N53061 Cessna 177RG Sn. 177RG1334 ACFT TT: 1819.16

Lycoming 10-390-A1A6 Sn. RL-191-80E Eng. TT: 70.14 12/09/2014

1. Remove master brake cylinder and rebuild with genuine Cessna parts using FAA. Approved Cessna service Manual for procedures and guidance. Cleaned and inspected calipers, brake rotors and pads. Bled brakes and checked for smooth and correct operation.
2. Replaced cowl fasteners with up-grade kit from Skybolt using STC. No. SA3286So and Cessna Service Manual For correct procedure (see 337 reflecting this work in aircraft records).
3. Rebuilt nose gear actuator using Cessna genuine parts and replace nose gear magnetic switch. All work accomplished using Cessna service manual.
4. Rebuilt main gear actuator using Cessna parts and Cessna service manual.
5. Flushed landing gear power pack and all lines with an ample amount of 5606 being run thru the entire system. Final service with 5606 along with gear retraction check resulted in smooth and correct operation of gear.
6. Replace nose gear tire and tube with new Flight Custom II and leak guard tube(see invoice in aircraft records).
7. Re-rigged and adjusted cable tensions on all flight controls, flaps and trim tabs using Cessna service manual for Correct procedure and guidance.
8. Cleaned and re-packed all wheel bearings (nose and main gear).
9. Complied with all lubrication requirements for the 100 Hr. Inspection
10. Complied with AD 2011-10-09 by inspection. Due next annual inspection.
11. Completed Annual Inspection using Cessna Maintenance Manual Inspection Checklist. All applicable AD's are complied with as of 12/09/2014.
12. I do hereby certify that this aircraft has been inspected in accordance with an Annual Inspection and has been Found to be in an airworthy condition. I do hereby return it to service. 12/09/2014.

James V. Ferlaak A&P21843061A



DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19				

FAR 91.413
THE ATC TRANSPONDERS AND INSPECTIONS AS REQUIRED BY FAR 91.413 WERE PERFORMED THIS DATE AND FOUND TO COMPLY WITH PART 43 APPENDIX F, AND APPENDIX E PARAGRAPH C.

TRANSPONDER #1	MAKE: Garmin	MODEL: CTX327	S/N: 83738292
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TRANSPONDER #2	MAKE:	MODEL:	S/N:
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DATE: 8-10-2015	WO: 7109	INSPECTOR: Richard Ellington
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N53061 CAROLINA AVIONICS GROUP, LLC
FAA APPROVED REPAIR STATION # QCCR-389K

FAR 91.411 ALTIMETERS, ALTITUDE REPORTING EQUIPMENT AND STATIC PRESSURE SYSTEM HAVE BEEN CHECKED AND MEET ALL SPECIFICATIONS OF APPENDIX E OF PART 43			
ALTIMETER CERTIFIED TO			
LEFT	FEET	RIGHT	FEET
	20,000		20,000
S/N:	0901001564	S/N:	398547
DATE: 8-10-2015	W/O 7109	INSPECTOR: Richard Ellington	
N53061 CAROLINA AVIONICS GROUP, LLC FAA APPROVED REPAIR STATION # QCCR-389K			

NS3061

CAROLINA AVIONICS GROUP, LLC

FAA Approved repair station QCCR389K
 Altimeter Scale Error

Correction Card

TEST PT(FT)
-1,000
0
500
1,000
1,500
2,000
3,000
4,000
6,000
8,000
10,000
12,000
14,000
16,000
18,000
20,000
22,000
25,000

Indicator Reading at +25c
-1000
-20
480
980
1480
1980
2980
3980
5980
7980
10000
12010
14020
16020
18020
19980

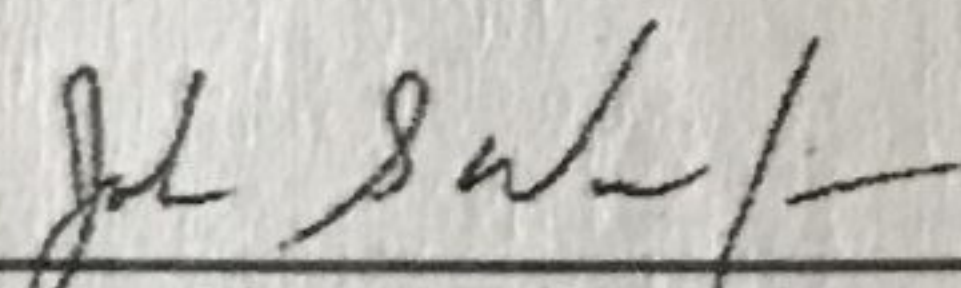
TEST
30,000
35,000
40,000
45,000
50,000
55,000
60,000
70,000
80,000

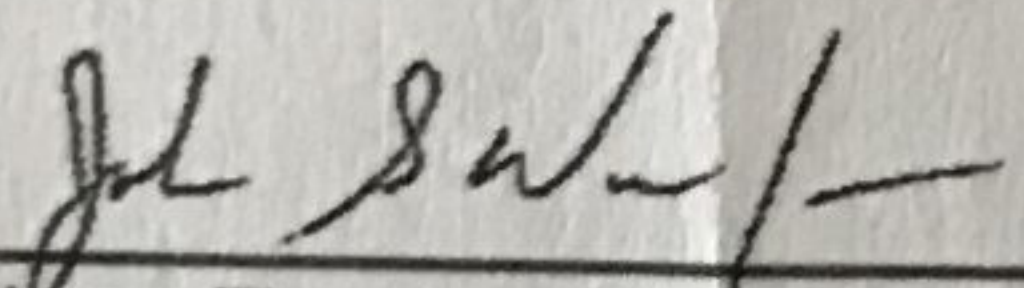
Indicator Reading at +25c

Altimeter	
Position	
Pilot	<input checked="" type="checkbox"/>
Copilot	<input type="checkbox"/>

ALT. S/N 0901001564
 DATE 8-10-15

DATE 2015 15	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
10-29-15	1834.50		1834.50	<p>Checked controls, cables, hinges, pulleys, brackets, attachments. Jacked aircraft. Checked landing gear, tires, wheels & brakes. Installed brake swivel assy. P/N 280111-1 for right main furnished by owner. Cleaned & lubed wheel bearings. Replaced tubes for left & right mains using Michelin Air Stop 15 x 6.00-6. Rotated main tires. Serviced tires with air & balanced. Removed shimmy dampner, disassembled, cleaned, inspected & reassembled using new seals. Reinstalled shimmy dampner & serviced with fluid. Performed landing gear retraction checks normal & emergency extension. Installed new clevis & turnbuckle for nose gear door. Removed main gear tunnel liners & sent to Purple Hill in Canada to be repaired by fiberglass. Fitted, painted & reinstalled after return. Serviced aircraft battery. Checked lights. Checked ELT per FAR 91-207 and replaced battery dated until December 2021. Checked fuel caps, vents, drain. Installed new seals for fuel caps. Checked & cleaned fuel strainer. Removed headliner, cleaned carry thru spar & treated with Dinitrol AV8. Installed new insulation & reinstalled headliner. Replaced seat hose for wing ventalization. Made & installed</p>

1. Approving Civil Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 4780845	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215				5. Work Order/Contract/Invoice Number: 1493588	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
10	CLEVIS	MS21253-3RS	1	N/A	New
12. Remarks: AIRWORTHINESS APPROVAL - PARTS. PO# gso-04235					
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature: 		13c. Approval/Authorization No.: ODA-100129-CF		14b. Authorized Signature:	
13d. Name (Typed or Printed): JOHN S. WALTON		13e. Date (dd/mm/yyyy): 21/OCT/2015		14c. Approval/Certificate No.:	
				14d. Name (Typed or Printed):	
				14e. Date (dd/mm/yyyy):	
<p align="center">User/Installer Responsibilities</p> <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>					

1. Approving Civil Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 4780845	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215					5. Work Order/Contract/Invoice Number: 1493588	
6. Item: 20	7. Description: TURNBUCKLE	8. Part Number: MS21251-B3S	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New	
12. Remarks: AIRWORTHINESS APPROVAL - PARTS. PO# gso-04235						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval/Authorization No.: ODA-100129-CF		14b. Authorized Signature:		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): JOHN S. WALTON		13e. Date (dd/mm/yyyy): 21/OCT/2015		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
User / Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

1. Approving National Aviation Authority / Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 3552567	
4. Organization Name and Address: Cessna Aircraft Company (PC4) Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218					5. Work Order/Contract/Invoice Number: 1209367	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
6	SCREW, MAC	MS35265-48	N/A	2	N/A	New
13. Remarks: AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. <div style="text-align: right;">PO# 013491</div>						
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: <i>Keith Thompson</i>		16. Approval/Authorization No.: ODA-100129-CE		20. Authorized Signature:		21. Approval/Certificate No.:
17. Name (Typed or Printed): KEITH THOMPSON		18. Date (m/d/y): JUL/27/2012		22. Name (Typed or Printed):		23. Date (m/d/y):
<p align="center">User / Installer Responsibilities</p> <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						

Star Avionics, Inc.

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

CRS # TA4R537M (423) 499-1100

Date: July 11, 2016

N53061

S/N: 177RG1334

Tach Time: 1856.14

A) Removed the following equipment:

- Honeywell KFD-840 PFD P/N 066-01206-0104 S/N 0701001564 from F.S. 72.50 in the Pilot's instrument panel.
- Honeywell CRM500GA-200 Magnetometer P/N 8350-0140-04 S/N 0901001275 from F.S. 127.14 in left wing tip.
- Honeywell OAT Probe P/N C307PS S/N unknown from F.S. 127.14 in left wing root.
- T.C.I. Altitude Digitizer P/N SSD120-XXA[]-RS232 S/N SRA-9249 from F.S. 71.50 under glove box.

B) Installed the following equipment:

- Garmin GDU 620 PFD/MFD P/N 011-01264-50 S/N 165204840 at F.S. 72.50 in the Pilot's instrument panel.
- Garmin GRS 77 AHRS P/N 011-00868-10 S/N 42033333 at F.S. 189.00 in the tail of aircraft.
- Garmin GDC 74A ADC P/N 011-00882-10 S/N 20622707 at F.S. 189.00 in the tail of aircraft.
- Garmin GMU 44 Magnetometer P/N 011-00870-00 S/N 47525340 at F.S. 127.14 in left wing tip.
- Garmin GTP 59 Temp Probe P/N 011-00978-00 S/N 47932977 at F.S. 127.14 in left wing root.

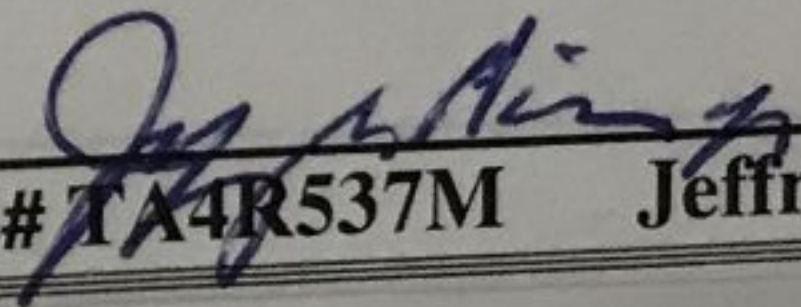
C) All work was accomplished in accordance with Garmin STC SA02153LA-D and Garmin G500/600 AML STC Installation Manual (190-00601-06) Rev. N dated October 31, 2015. The G 500 System is connected to the PS Engineering PMA 8000B Audio Panel, Garmin GNS 530W, Garmin SL 30 NAV/COM, Garmin GTX 327 Transponder, Garmin GDL 88 ADS-B Transceiver, Garmin Flight Stream, and the S-Tec 55X Autopilot System. Installed Three new Klixon Circuit Breakers P/N 7277-2-5, 7277-2-5, and 7277-2-5 for the G 500 system. Three Circuit Breakers are placarded "PFD", "AHRS", and "ADC" installed on the essential buss.

D) An FAA Approved FMS (190-00601-01) Rev. K dated 4/1/2015 and must be kept in the aircraft at all times. An Instructions for Continued Airworthiness (190-00601-00) Rev. L dated 3/18/2015 was provided. The Garmin G 500 was operationally tested and was found to be compatible with the above listed STC, AFMS, Installation Manual, ICA, FAR 91.411, and FAR Part 43 Appendix E Para (a) and (b). A new basic empty aircraft weight and center-of-gravity was calculated. It is the responsibility of the pilot to ensure correct weight and balance before each flight. The new electrical load does not exceed 80% of the aircraft capability. See FAA Form 337 dated 07/11/2016.

Details are on file at Star Avionics, Inc. under W.O. # 33572.

CRS# TA4R537M

Jeffrey K. Miller

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
<p style="text-align: center;">Star Avionics, Inc. 108 Nowlin Lane, Hangar 21 Chattanooga, TN 37421 CRS # TA4R537M (423) 499-1100</p> <p>Date: July 11, 2016 N53061 S/N: 177RG1334 Tach Time: 1856.14</p> <p>A) Removed the following equipment: -S-Tec Autopilot Computer P/N 01260-1-0-28 S/N 01260-1013-06877D from F.S. 72.50 in the Pilot's instrument panel. -S-Tec Autopilot Pitch Computer P/N 01261-3-28 S/N 2357A from F.S. 189.0 in tail of aircraft.</p> <p>B) Installed the following equipment: -S-Tec Turn Coordinator P/N 6405-28L S/N M15-11777 at F.S. 73.50 in the Pilot's instrument panel. -S-Tec 55X Autopilot Computer P/N 01192-1-3T S/N 01192-1618-16592 at F.S. 71.50 in instrument panel radio rack. -S-Tec Trim Servo P/N 0106-T9 S/N 00106-1608-30406CEFGJ at F.S. 257.50 in the tail of aircraft.</p> <p>C) All work was accomplished in accordance with S-Tec STC SA09456AC-D; S-Tec Installation Model ST-878 Bulletin No. 978 Rev. 2 dated March 8, 2002 and TK-878 Bulletin No. 978-1 Rev. 2 dated March 8, 2002; and S-Tec General Installation Information Bulletin No. 600 Rev. 26 dated November 17, 2014. The S-Tec 55X Autopilot System is connected to the PS Engineering PMA 8000B Audio Panel and the Garmin G500 Flight Display System. Installed three new Klixon Circuit Breakers P/N 7277-2-5, 7277-2-3, and 7277-2-2 for the 55X system. Three Circuit Breakers are placarded "A/P", "Turn Coord", and "Trim" installed on the Avionic buss.</p> <p>D) An FAA Approved FMS (892042) Rev. 1 dated 10/23/2001 and must be kept in the aircraft at all times. An Instructions for Continued Airworthiness (86240) Rev. B was provided. The S-Tec 55X Autopilot System was operationally tested and was found to be compatible with the above listed STC, AFMS, Installation Bulletins, and ICA. A new basic empty aircraft weight and center-of-gravity was calculated. It is the responsibility of the pilot to ensure correct weight and balance before each flight. The new electrical load does not exceed 80% of the aircraft capability. See FAA Form 337 dated 07/11/2016.</p> <p>Details are on file at Star Avionics, Inc. under W.O. # 33572.</p> <p style="text-align: right;">  CRS# TA4R537M Jeffrey K. Miller </p>				

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Star Avionics, Inc.

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

CRS # TA4R537M (423) 499-1100

Date: July 11, 2016

N53061

S/N: 177RG1334

Tach Time: 1856.14

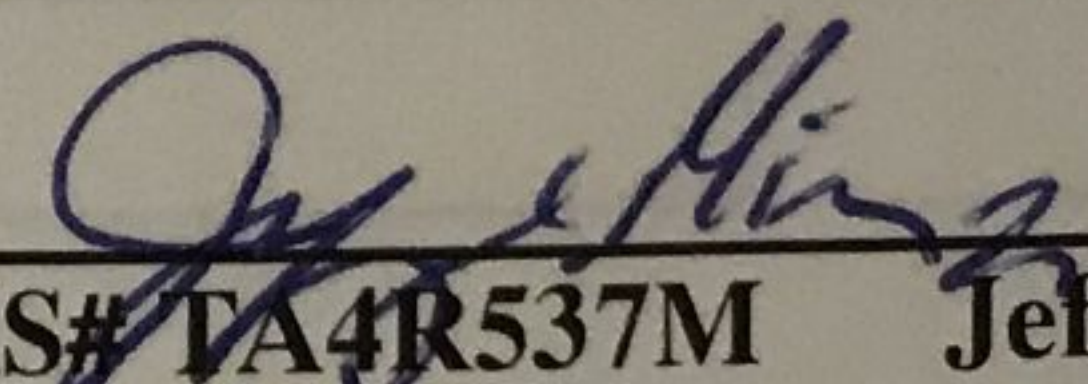
A) Installed the following equipment:

- Garmin Flight Stream 210 P/N 011-03257-40 S/N 3RE004302 at F.S. 189.00 in tail of aircraft.
- Garmin GDL 88 ADS-B UAT Transceiver P/N 011-02369-00 S/N 22T005500 at F.S.189.00 in tail of aircraft.
- Comant UAT Antenna P/N CI 105-16 S/N 35175 at F.S. 219.50 on the bottom of aircraft.

B) All work was accomplished in accordance with Garmin STC SA02119SE; Garmin GDL 84/88 Part 23 AML STC Installation Manual (190-01310-00) Rev. 9 dated March 31, 2016 and Garmin GDL 84/88 TSO Installation Manual (190-001122-00) Rev. J dated February 29, 2016. The Garmin GDL 88 ADS-B UAT System is connected to the Garmin GNS 530W GPS/NAV/COM, PS Engineering PMA 8000B Audio Panel, Garmin GTX 327 Transponder, Garmin G500 Flight Display System, and the Garmin Flight Stream 210. Installed two new Klixon Circuit Breaker (P/N 7277-2-3 and 7277-2-1); placarded "UAT" and "B/T".

C) An Instructions for Continued Airworthiness GDL 84/88 Part 23 AML STC (190-01310-01) Rev. 3 dated October 22, 2015 was provided. An FAA Approved Flight Manual Supplement Garmin GDL 84/88 ADS-B Transceiver (190-01310-02) Rev. 4 dated December 8, 2015 must be maintained in the aircraft at all times. The Garmin GDL 88 and Flight Stream 210 were operationally tested and found to be compatible with the above listed STC, Installation Manuals, and ICA. A new empty aircraft weight and balance was calculated. It is the responsibility of the pilot to ensure correct weight and balance before each flight. The new electrical load does not exceed 80% of the aircraft capability. See FAA Form 337 dated 07/11/2016.

Details are on file at Star Avionics, Inc. under W.O. # 33572.


CRS# TA4R537M Jeffrey K. Miller

SERVICEABLE

(COMPONENTS)

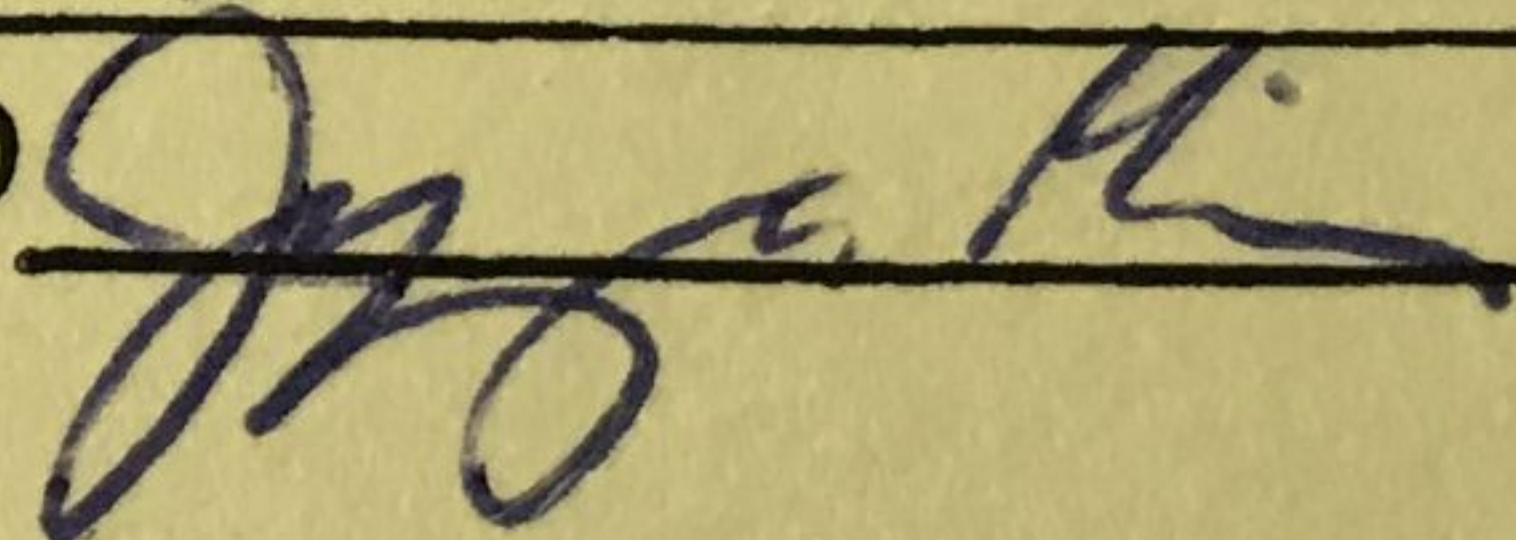
PART NAME STBY Altimeter DATE 7/11/16
MANUFACTURER United S/N 398547
PART NO. 5934P-3
OWNER Greg Swift
A/C TYPE Cessna 177RG NO. N53061
REMARKS Certification IAW FAR Part 43 App. E to 20,000ft
TECHNICIAN Ed Ray

STAR AVIONICS, INC.
LOVELL FIELD
CHATTANOOGA, TN 37421
FAA CERTIFIED REPAIR STATION #TA4R537M

THE COMPONENT IDENTIFIED ON THIS FORM WAS
INSPECTED IN ACCORDANCE WITH CURRENT CIVIL
AIR REGULATIONS AND FOUND AIRWORTHY FOR
RETURN TO SERVICE. PERTINENT DETAILS OF
WORK PERFORMED ARE ON FILE AT THIS REPAIR
STATION UNDER WORK NO. 33572

DATED 1-6-16

SIGNED



For Error Tol -1000 -5 +/-20 0 0 20 500 -20 20 1000 ✓ 20 1500 -15 25 2000 -10 30 3000 -5 30 4000 -5 35 6000 ✓ 40 8000 -10 60 10000 -10 80 12000 -15 90 14000 -30 100 16000 -30 110 18000 -40 120 20000 -50 130 22000 140 25000 155 30000 180 35000 205 40000 230 45000 255 50000 280		Star Avionics, Inc. Repair Station TA4R537M Lovell Field, Chatt., TN Phone: (423) 499-1100																											
Case leak <u>19</u> ft/min Tol. 100 ft. +/-		Hysteresis <u>+25</u> at 50% <u>+30</u> at 40% Tol. 75 ft. +/-																											
<table border="1"> <tr> <th>Friction Error</th> <th>Tol ft +/-</th> </tr> <tr><td>1k</td><td>55 70</td></tr> <tr><td>2k</td><td>55 70</td></tr> <tr><td>3k</td><td>55 70</td></tr> <tr><td>5k</td><td>55 70</td></tr> <tr><td>10k</td><td>40 80</td></tr> <tr><td>15k</td><td>40 90</td></tr> <tr><td>20k</td><td>50 100</td></tr> <tr><td>25k</td><td> 120</td></tr> <tr><td>30k</td><td> 140</td></tr> <tr><td>35k</td><td> 160</td></tr> <tr><td>40k</td><td> 180</td></tr> <tr><td>50k</td><td> 250</td></tr> </table>		Friction Error	Tol ft +/-	1k	55 70	2k	55 70	3k	55 70	5k	55 70	10k	40 80	15k	40 90	20k	50 100	25k	120	30k	140	35k	160	40k	180	50k	250	After Effect <u>+15</u> ft. Tol. 30 ft. +/-	
Friction Error	Tol ft +/-																												
1k	55 70																												
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50k	250																												
		Baro Scale <u>28.10 -1730 -1727</u> <u>28.50 -1340 -1340</u> <u>29.00 -865 -863</u> <u>29.50 -390 -392</u> <u>29.92 0 0</u> <u>30.50 525 +531</u> <u>30.90 890 +893</u> <u>30.99 970 +974</u> Tol. 25 ft. +/-																											

Tested Per F.A.R. Part 43, Appendix E			
P/N	59348-3	S/N	398547
W.O.	33572	Aircraft	NS3061
Date	7/11/16	Tech	<i>[Signature]</i>

DATE

19

RECORDING
TACH
TIMETODAYS
FLIGHTTOTAL
TIME IN
SERVICE**Description of Inspections, Tests, Repairs and Alterations**
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)***Star Avionics, Inc.******108 Nowlin Lane, Hangar 21******Chattanooga, TN 37421******CRS # TA4R537M (423) 499-1100*****Date: July 11, 2016****N53061****S/N: 177RG1334****Tach Time: 1856.14**

Updated Garmin GNS 530W P/N 011-01064-40 S/N 23822240 Main software to version 5.03 and WAAS GPS software to version 5.0 IAW Garmin Software Service Bulletin #1317 Rev. A dated April 30, 2013.

Updated Garmin GNS 530W P/N 011-01064-40 S/N 23822240 Main software to version 5.30 IAW Garmin Software Service Bulletin #1606 Rev. A dated February 15, 2016. Performed operational check IAW Garmin 500W Series STC Installation Manual (190-00357-02) Rev. L dated January 31, 2016, system checked normal.

A new FAA Approved Flight Manual Supplement (190-00357-03) Rev. E dated November 2014 was installed in the aircraft POH. I certify that this aircraft has been inspected in accordance with the above inspections and was determined to be in airworthy condition with respect to work performed above.

Details are on file at Star Avionics, Inc. under W.O. # 33572.


CRS# TA4R537M

Jeffrey K. Miller

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tries.)

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19				

Star Aviation Services

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

(423) 499-1100

TACH 1856.14

Date: 7-11-16

N53061

S/N: 177RG1334

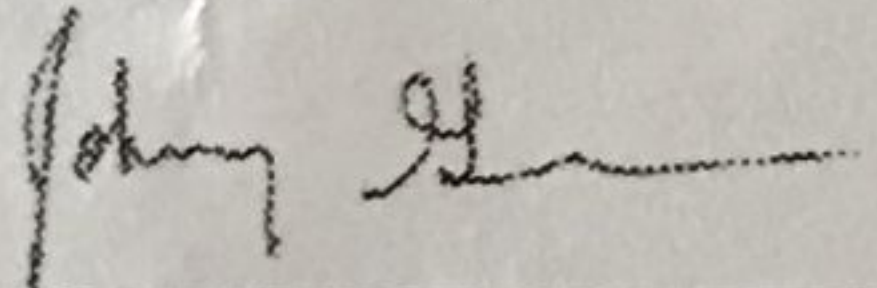
HOBBS:318.3

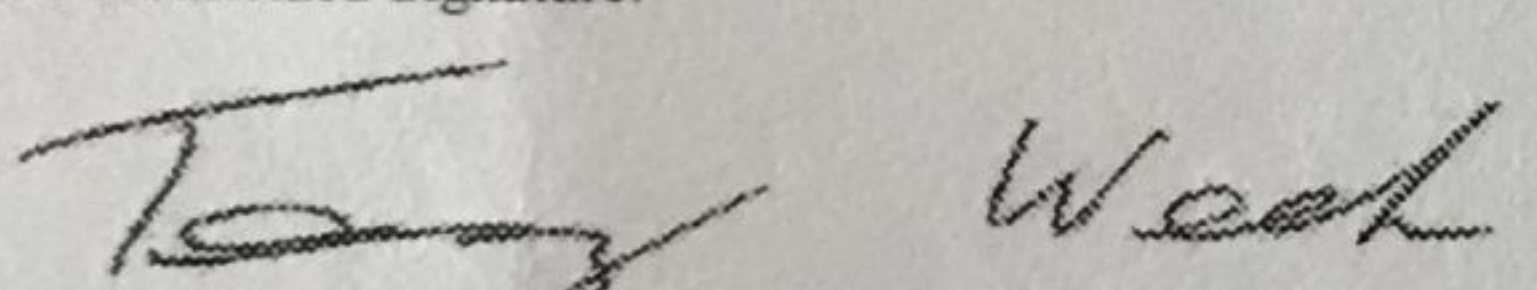
REMOVED GLARESHIELD AND EXISTING FABRIC. RECOVERED WITH BLACK 4 WAY STRETCH LEATHER, REINSTALLED GLARESHIELD. REPLACED 4 BURNED OUT LAMPS IN GLARESHIELD P/N 1829. INSTALLED PRESSURE SWITCH FOR HOBBS METER P/N S3010-1 USING HOSE P/N 111504-4-0120, AND FITTINGS P/N AN826-3D AND AN910-1D. COMPLIED WITH CESSNA SERVICE LETTER SEL-57-03 BY CLEANING AND DETAILED VISUAL INSPECTION OF LOWER MAIN SPAR CAP. NO CORROSION OR CRACKS NOTED AT THIS TIME. COPY OF INSPECTION REPORT FORWARDED TO CESSNA VIA E-MAIL. GROUND RAN ENGINE, OPS CHECKS GOOD, NO LEAKS NOTED.

Details are on file at Star Aviation Services under W.O. # M6333P

Mark R. Howland AP3290921

For Star Aviation Services

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 5152863	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215					5. Work Order/Contract/Invoice Number: 2317501	
6. Item: 10	7. Description: SWITCH	8. Part Number: S3010-1	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New	
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: 31606292						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval/Authorization No.: PC4		14b. Authorized Signature		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): JOHNNY GLOVER		13e. Date (dd/mm/yyyy): 29/Jun/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 5159521	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215					5. Work Order/Contract/Invoice Number: 2323230	
6. Item: 10	7. Description: LAMP	8. Part Number: 1829	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New	
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: 31607052						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval/Authorization No.: PC4		14b. Authorized Signature		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): TERRY WEEKS		13e. Date (dd/mm/yyyy): 05/Jul/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						

Star Aviation Services

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

(423) 499-1100

Date: November 14, 2016

N53061

C-177RG

S/N: 177RG1334

Tach Time: 1876.42

Performed annual inspection with the following repairs. Replaced right Nav light bulb P/N MS25309-7512, Ops check good. Installed a new right Nav light detector P/N 1221201-4. Replaced one lower right side cowling rivet P/N AN426AD-4-3. Removed and replaced the engine throttle cable and rigged Per Cessna 177RG AMM. P/N 565-549-005 was installed, ops check normal. Serviced nose landing gear strut with Fluid and Nitrogen per C-177RG AMM. Re-rigged Rudder system I/A/W C-177RG AMM. Replaced the nose landing gear Fwd door attach bearings P/N S1896-4L1. Re-torqued leaking fuel supply line to the fuel strainer, No leaks noted. Replaced the plastic bumper on the nose landing gear door retraction rod. Replaced the cabin heat inlet duct using 18 " of Scat 11. Removed and replaced all of the flap roller bearings and bushings, 12EA P/N 0523919 bushings, 10 Ea. P/N 0523921 Bearings and 2 Ea. P/N 0523920 Bearings. Flap operation normal. Replaced the right cabin door seal using new seal P/N S1817-1. Replaced the baggage door seal using new seal P/N R860059. Replaced broken nut plate for the baggage door hold open rod attachment, P/N 21053L10. Replaced the center console lower light bulb P/N 313. Repaired cracks in the nose landing gear door by fabricating inner doubler and riveting in place using standard procedures as outlined in the C-177 AMM Structural Repair Section 17-60B & AC43.13-1B for repair of bonded doors. Performed **ELT Inspection per FAR 91.207**, operational check was normal and **battery replacement date is 12/2021**. Replaced the MidContinent Electric attitude Indicator back up battery P/N 9015607 MFG date 10/2016, next replacement due 10/2019. C/W Cessna AD2011-10-09 seat rails & Seats by visual inspection with no discrepancies noted at this time, next due at Tach 1976.42 hrs or 11/2017. AD's checked thru this date. Aircraft was lubricated and serviced as needed.

I certify that this aircraft was inspection in accordance with the scope and detail as outlined in FAR 43 Appendix D and was found to be in a Airworthy condition with respect to the work performed and is approved for return to service.

Details are on file at Star Aviation services under W.O. # M6380P.
For Star Aviation Services

Clinton E. Renner, Jr AP34187271A

Clinton E. Renner, Jr.

DATE

19

TACH
TIME

FLIGHT

TIME IN
SERVICE**Star Avionics, Inc.****108 Nowlin Lane, Hangar 21****Chattanooga, TN 37421****CRS # TA4R537M (423) 499-1100****Date: November 14, 2016****N53061****S/N: 177RG1334****Tach: 1876.43**

Customer reports Autopilot will not engage and will not pass PFT; troubleshoot system, removed Autopilot Computer (P/N 01192-1-3T S/N 01192-1618-16592) from aircraft and sent to S-Tec for repair. Received computer from repair and reinstalled in aircraft; performed an operational check IAW S-Tec System 55X Autopilot Instructions for Continued Airworthiness (86240) Rev. B; system checked normal no faults found, closed all areas accessed.

Details are on file at Star Avionics, Inc. under W.O. # 33808.


CRS# TA4R537M

Jeffrey K. Miller

Star Avionics, Inc.**108 Nowlin Lane, Hangar 21****Chattanooga, TN 37421****CRS # TA4R537M (423) 499-1100****Date: November 15, 2016****N53061****S/N: 177RG1334****Tach: 1876.43**

Installed Software Upgrade for GDL 88 Software Version 3.34 IAW Garmin Software Service Bulletin No.: 1647 Rev. A dated August 15, 2016; performed a GDL 88 Software Verification Procedure IAW above Service Bulletin, the GDL 88 (P/N 011-02369-00 S/N 22T005500) checked normal and is returned to service.

Details are on file at Star Avionics, Inc. under W.O. # 33829.


CRS# TA4R537M

Jeffrey K. Miller

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Star Avionics, Inc.

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

CRS # TA4R537M (423) 499-1100

N53061

S/N: 177RG1334

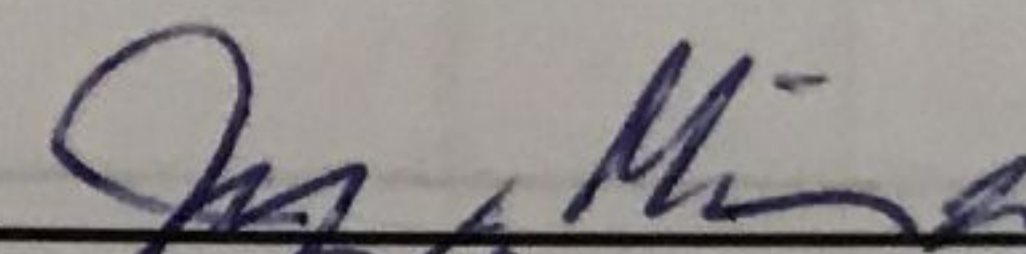
Tach: 1915.41

Date: February 1, 2017

Customer reports GNS-530W has "Display backlight failure"; removed Garmin GNS-530W (P/N 011-01064-00 S/N 23822240) from aircraft to bench. Confirmed discrepancy, obtained configuration, and sent unit for repair. Received unit, performed bench check and configured unit; reinstalled unit in aircraft and performed and operational check IAW Garmin 500W Series Installation Manual (190-00357-02) Rev. L dated January 31, 2016, unit checked normal no faults noted at this time.

I certify that this aircraft has been inspected in accordance with the above manual and was determined to be in airworthy condition.

Details are on file at Star Avionics, Inc. under W.O. # 33861.


CRS# TA4R537M Jeffrey K. Miller

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DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

Star Avionics, Inc.

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

CRS # TA4R537M (423) 499-1100

Date: February 1, 2017

N53061

S/N: 177RG1334

Tach: 1915.41

Customer reports Autopilot wonders on GPS Approach and jerks yoke in strong crosswinds; troubleshot system, gained access to Roll Servo (P/N 0106-R2 S/N 00106-1013-26239CEFGJ) and removed from aircraft for repair. Received repaired servo and reinstalled in aircraft; performed an operational check IAW S-Tec System 55X Autopilot Instructions for Continued Airworthiness (86240) Rev. B; system checked normal no faults found at this time, closed all areas accessed.

I certify that this aircraft has been inspected in accordance with the above ICA and was determined to be in airworthy condition.

Details are on file at Star Avionics, Inc. under W.O. # 33853-1.


CRS# TA4R537M

Jeffrey K. Miller

DATE

19

RECORDING
TACH
TIMETODAYS
FLIGHTTOTAL
TIME IN
SERVICE**Description of Inspections, Tests, Repairs and Alterations**
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)**Star Aviation Services**

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

(423) 499-1100

TACW: 1915.41

N53061

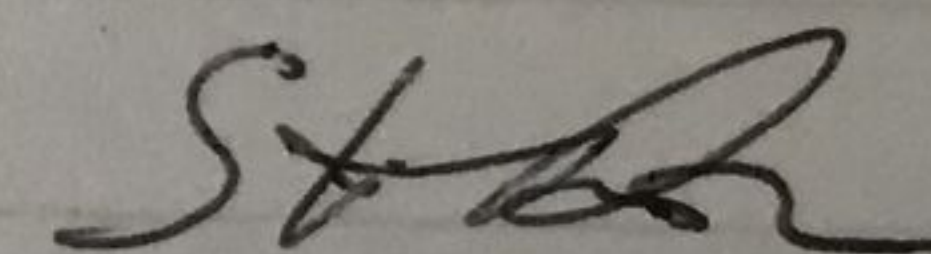
177RG1334

Hobbs: 374.7

2 Feb 2017

Copilots Door drive rod for latch bent, removed and straightened, reinstalled and adjusted door and seal, OPS checked normal at this time. Replaced door handle retaining clip with new clip P/N 0511189-1. Removed both main tire for shimmy and balanced, reinstalled. Replaced both fuel cap gaskets with new gaskets p/n B100142-1. Replaced wire connection to switch for Nav Lights, OPS checked ok at this time. * END*

Details are on file under W.O. # M6419P * END *



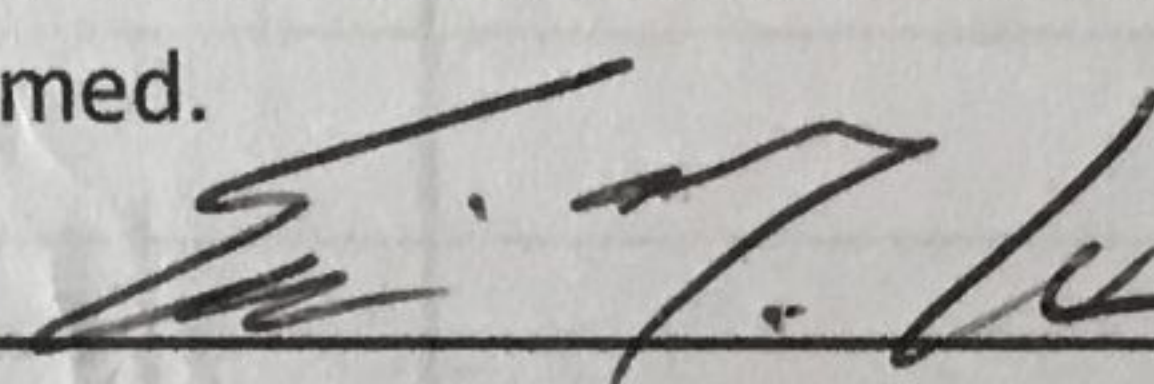
Steven D Rasor IA 3229490 A&P

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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INDYJet

3867 Aviation Way
Greenfield, IN 46140

Phone: 317-335-3371
Fax: 317-335-2073

Aircraft Registration:	N53061	Date:	3/20/2017	Hobbs:	406.40
<p>Removed and replaced nose tire tube with new Goodyear 302-013-400 5.00-5. Repacked wheel bearings and serviced tire with air. Balanced tire. This aircraft approved for return to service with respect to work performed.</p> <p>Eric M. Wilson  AP3063927</p>					

Star Avionics, Inc.

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

CRS # TA4R537M (423) 499-1100

Date: July 26, 2017

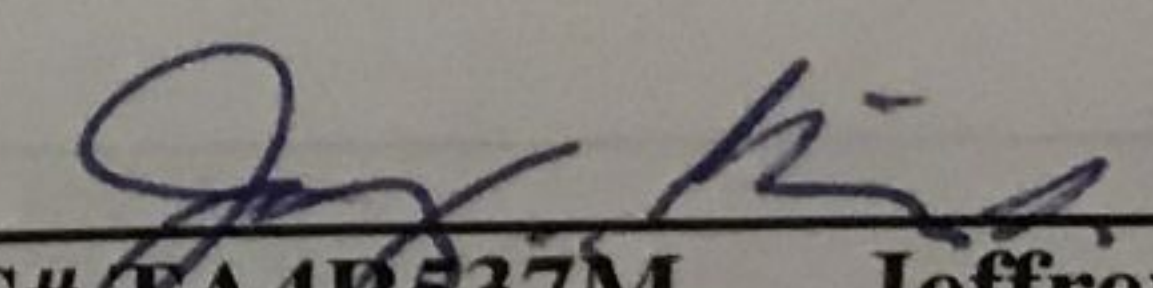
N53061

S/N: 177RG1334

Hobbs: 450.8

Customer reports Autopilot will not pass PFT; troubleshoot system and removed the S-Tec System 55X Autopilot Computer (P/N 01192-1-3T S/N 01192-1618-16592) from aircraft; installed an exchange Autopilot Computer (P/N 01192-1-3T S/N 01192-1309-15617) in aircraft, performed an operational check IAW S-Tec System 55X Instructions for Continued Airworthiness (86240) Rev. B; system checked normal no faults found at this time, closed all areas accessed.

Details are on file at Star Avionics, Inc. under W.O. # 33960.


CRS# TA4R537M Jeffrey K. Miller

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19				

Star Aviation Services

108 Nowlin Lane, Hangar 21

Chattanooga, TN 37421

(423) 499-1100

N53061

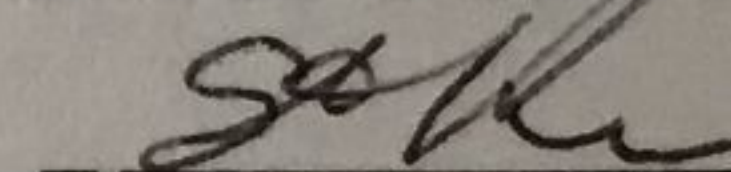
Hobbs 450.8

14 Aug 2017

Removed electric fuel pump Part No. C291504-0201 ser. No. 15421 for leaking at case drain. Installed fresh overhaul pump (see 8120-3 from tracking No. M1701186, Part No C291504-0201 Ser. No. 21312) IAW Cessna 177 MM. Lubricated airframe drain cables and performed leak check and operational check. Checked good, no leaks noted at this time. *END*

Details are on file at Star Avionics, Inc. under W.O. # M6503P.

Steven D Rasor 3229490 A&P



1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: M1701186	
4. Organization Name and Address: Aeromotors, LLC 304 East Murray Street, Browntown WI. 53522 (01MR357Y)					5. Work Order/ Contract/ Invoice Number: M1701186	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial/Batch Number:	11. Status/Work:	
1	Fuel Pump	4140-00-15 (C291504-0201)	1	21312	Overhauled	
12. Remarks: <p style="margin: 0;">Overhauled / Repaired / Tested In Accordance With Procedure:AS28-031R14</p> <p style="margin: 0;">Details on attached Work Order Number : M1701186</p> <p style="margin: 0;">Alternate Part Number: C291504-0201</p> <p style="margin: 0;">Certifies that the work specified in blocks 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA .145.6504</p> <p style="text-align: center; margin: 10px 0;">-----Nothing Below-----</p>						
13a. Certifies the items identified above were manufactured in conformity to: Approved design data and are in a condition for safe operation. Non-approved design data specified in Block 12.			14a <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:
						01MR357Y
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
				Gerri Harvey		27-Jan-2017
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s) / propeller(s) / article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

DATE

19



Peak Aviation
1587 Aviation Way
Colorado Springs, Colorado, 80916

N53061

Airframe Maintenance Log Entry

Entry	Date	Total Hours	Tach Time	Hobbs	Description of Work Completed	Mechanic	FAA Cert
1	02/01/18	1995.5	1995.5	471.4	Performed an ANNUAL Inspection on airframe IAW Cessna Maintenance Manual Section 2, Revision 8, Dated Oct 2, 1995 and in accordance with the scope and detail of the FAR Title 14 Part 43 Appendix D Dated September 9 2015. Inspected ELT in accordance with FAR 91.207. ELT Battery replacement due Dec, 2021. Completed AD 11-10-09 Seat rail/track assembly by visual inspection, Next due at annual or 2095.45 hours. Midcontinent Electric attitude backup indicator battery PN: 9015607 next due at 10/2019. All AD's current to this date. Lubricated and serviced aircraft as needed.	Robert K Pickett	A&P 3710569 IA

I certify this AIRCRAFT has been inspected in accordance with an ANNUAL INSPECTION as per the aircraft manufacturer's inspection criteria and was determined to be in an AIRWORTHY condition.

ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Date: 10/10/2018

Acft Reg: N53061

Flight Tach: 517.0

Airframe

Removed nose strut and replaced seals with seals found in kit JMCNS1. Serviced strut with hydraulic fluid and nitrogen as required. Serviced and charged battery, installed battery minder 244CEC1-AA-S2. Jacked aircraft and swung gear 3 times, functional check is satisfactory. This aircraft is approved for return to service for the above accomplished work.----END----

Justin Parrow

A&P3083586

DATE

19

RECORDING
TACH
TIMETODAYS
FLIGHTTOTAL
TIME IN
SERVICE**Description of Inspections, Tests, Repairs and Alterations**
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)**Crest Aviation, LLC - Repair Station 4JKR099D**

11915 Airport Way Suite 1 Broomfield CO 80021 303.466.5000

A/C: Cessna 177 N#53061 AC TOTAL TIME: — HOBBS: 515.2 DATE: 9/26/18

Work Accomplished: 91.413

Altimeter Make/Model: —

Serial No.: —

~~Static System and Altimeter have been tested to~~ ft with reference to 14
~~CFR 91.411 and found to comply with the specifications of 14 CFR 43 Appendix E.~~

Transponder Make/Model: Garmin GTX327 Serial No.: 83738292

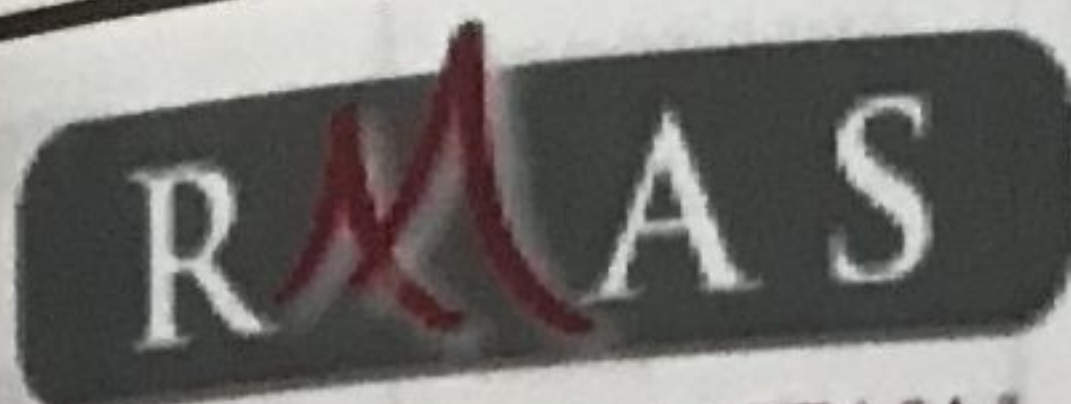
Encoder Make/Model: —

Serial No.: —

ATC Transponder System has been inspected with reference to 14 CFR 91.413 and
found to comply with the specifications of 14 CFR Appendix F.

Tested by: Steve AllenDetails on file under W.O.# 1026

FORM# CA032



ROCKY MOUNTAIN
AIRCRAFT SERVICES LLC

11750 Airport Way Hanger B-12A
Broomfield CO, 80021

Description of Inspection
Entries must be endorsed with
Technician or Repair Facility

Date: 3/20/2019
Acft Reg: N53061
Flight Tach: 2038.87
ACTT: 2038.87
AIRFRAME

Alterations
(Number of
specific entries.)

Performed an Annual inspection in accordance with FAR 43 App (D) and Cessna checklist. Inspected and lubed as required all flight control surfaces, rod ends, chains and pulleys. C/W FAR 91.207 sub (D) ELT inspection. Operational check was satisfactory at this time. **Batteries next due December 2021.** Replaced induction filter with BA-5705 filter. Replaced left and right MLG tires with (2) new 15/6.00-6 Air hawk tires and 15/6.00-6 Inner tubes. Replaced Landing light with new 01-0771833-25 lamp. Replaced taxi lamp with new 01-0771833-20 lamp. Jacked aircraft and inspected landing gear, no defects found. Swung gear 3 fault free times and performed emergency extension, no defects found at this time. Replaced left elevator static with new ESD-1 wick. C/W AD 11-10-09 Seat track and pin engagement. Inspected visually and dimensionally, no defects found. **Next due at tach: 2138.87 or 12 months whichever occurs first.** Ground Run/Ops/Leak check all satisfactory at this time. I certify that this Airframe has been inspected in IAW an Annual inspection and has been found to be in airworthy condition and is approved for return to service at this time.-----END-----

Justin C Parrow

A&P3083586IA

